

LAMP PHOTOMETRIC REPORT

MODEL: DL-SW25N

POWER: 25W

VOLTAGE: 220V

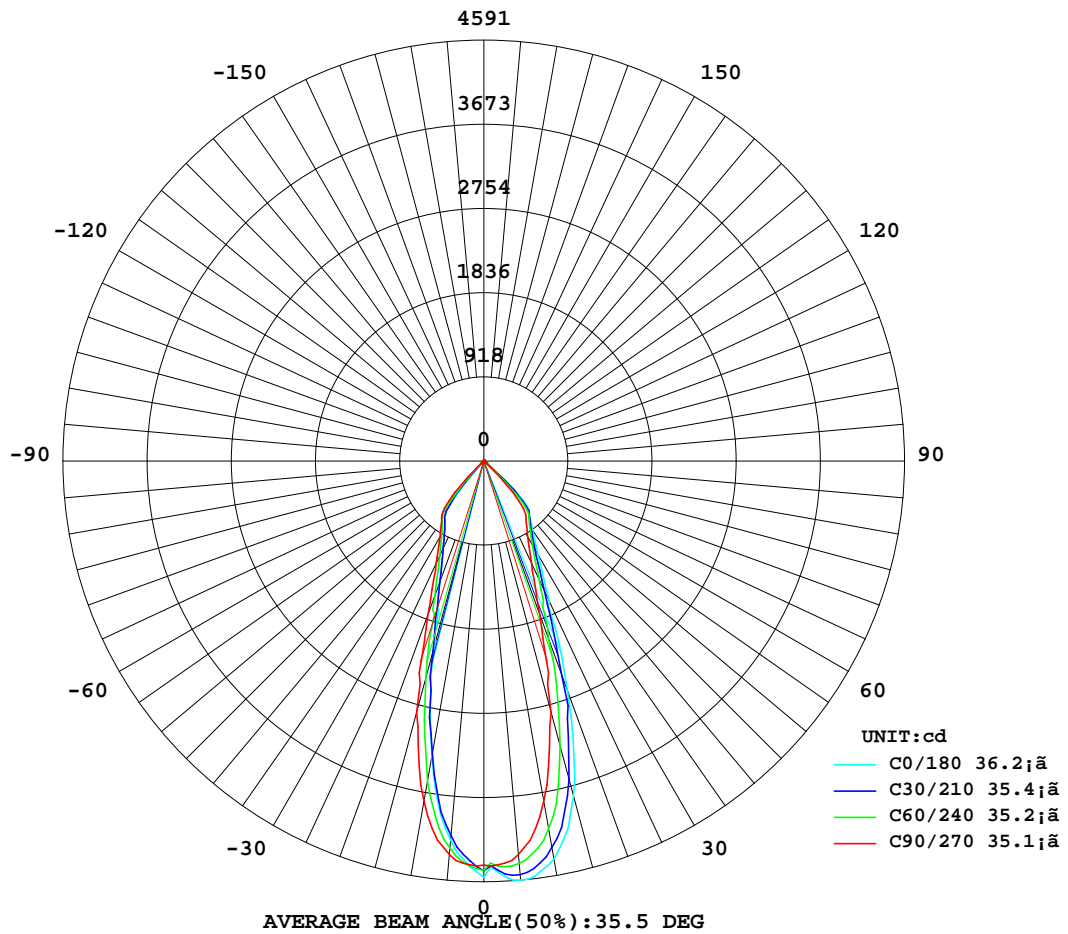
WORKING VOLTAGE: 220.5V

MANUFACTURER: CONG TY CO PHAN VINALED

TOTAL FLUX: 2596.9 lm

Efficiency: 106.30 lm/W

Test: U: 220.5V I: 0.114A P: 24.43W PF: -0.969



Test System: LSG-1800
Temperature: 25.3 DEG
Operators: NGUYEN BA HUNG
Test Date: 03-06-2019

Test Set: 8.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks: LED SOURCE: CREE

ZONAL FLUX DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	4158	4163	4313	4459	4591	4459	4313	4163	0- 5	104.8	104.8
10.0	3277	3367	3768	4174	4408	4174	3768	3367	5- 10	291.0	395.9
15.0	2052	2321	2842	3416	3781	3416	2842	2321	10- 15	393.1	789.0
20.0	1415	1482	1794	2313	2665	2313	1794	1482	15- 20	386.0	1175
25.0	1051	1091	1233	1508	1700	1508	1233	1091	20- 25	326.1	1501
30.0	858.7	887.3	962.0	1097	1186	1097	962.0	887.3	25- 30	284.3	1786
35.0	749.5	771.6	806.7	886.5	927.4	886.5	806.7	771.6	30- 35	265.3	2051
40.0	380.1	492.5	672.7	770.9	777.5	770.9	672.7	492.5	35- 40	248.3	2299
45.0	65.20	61.90	259.3	502.3	608.0	502.3	259.3	61.90	40- 45	163.7	2463
50.0	41.29	35.59	35.60	63.14	84.79	63.14	35.60	35.59	45- 50	53.54	2517
55.0	31.50	27.59	27.20	35.90	46.20	35.90	27.20	27.59	50- 55	16.89	2533
60.0	21.90	19.10	19.69	27.29	34.50	27.29	19.69	19.10	55- 60	12.79	2546
65.0	15.29	12.10	11.90	19.04	24.79	19.04	11.90	12.10	60- 65	9.477	2556
70.0	11.80	8.549	7.600	11.90	16.59	11.90	7.600	8.549	65- 70	6.515	2562
75.0	10.30	7.200	5.200	7.700	11.59	7.700	5.200	7.200	70- 75	4.691	2567
80.0	7.900	5.450	3.900	6.050	9.400	6.050	3.900	5.450	75- 80	3.683	2571
85.0	4.300	2.250	1.500	4.350	7.500	4.350	1.500	2.250	80- 85	2.498	2573
90.0	3.700	1.800	0.700	2.350	4.700	2.350	0.700	1.800	85- 90	1.493	2575
95.0	3.500	1.650	0.600	1.750	3.800	1.750	0.600	1.650	90- 95	1.092	2576
100.0	3.200	1.550	0.600	1.600	3.500	1.600	0.600	1.550	95-100	0.978	2577
105.0	3.000	1.500	0.700	1.550	3.300	1.550	0.700	1.500	100-105	0.912	2578
110.0	2.900	1.450	0.800	1.450	3.100	1.450	0.800	1.450	105-110	0.861	2578
115.0	3.000	1.600	0.900	1.450	3.000	1.450	0.900	1.600	110-115	0.833	2579
120.0	3.200	1.900	1.200	1.600	2.900	1.600	1.200	1.900	115-120	0.867	2580
125.0	3.600	2.400	1.800	1.900	3.100	1.900	1.800	2.400	120-125	0.973	2581
130.0	4.300	3.050	2.400	2.400	3.500	2.400	2.400	3.050	125-130	1.133	2582
135.0	5.000	3.750	3.200	3.050	4.000	3.050	3.200	3.750	130-135	1.307	2584
140.0	5.900	4.650	4.000	3.700	4.600	3.700	4.000	4.650	135-140	1.463	2585
145.0	7.200	6.100	5.300	4.600	5.400	4.600	5.300	6.100	140-145	1.643	2587
150.0	8.800	7.800	6.700	5.950	6.500	5.950	6.700	7.800	145-150	1.835	2588
155.0	10.70	9.650	8.600	7.600	7.900	7.600	8.600	9.650	150-155	1.984	2590
160.0	12.30	11.20	10.50	9.450	9.800	9.450	10.50	11.20	155-160	2.021	2592
165.0	13.20	12.10	11.90	11.10	11.70	11.10	11.90	12.10	160-165	1.848	2594
170.0	13.60	12.25	12.60	12.10	13.09	12.10	12.60	12.25	165-170	1.450	2596
175.0	13.60	12.25	12.80	12.35	13.70	12.35	12.80	12.25	170-175	0.902	2597
180.0	13.40	12.10	12.90	12.40	13.90	12.40	12.90	12.10	175-180	0.302	2597
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

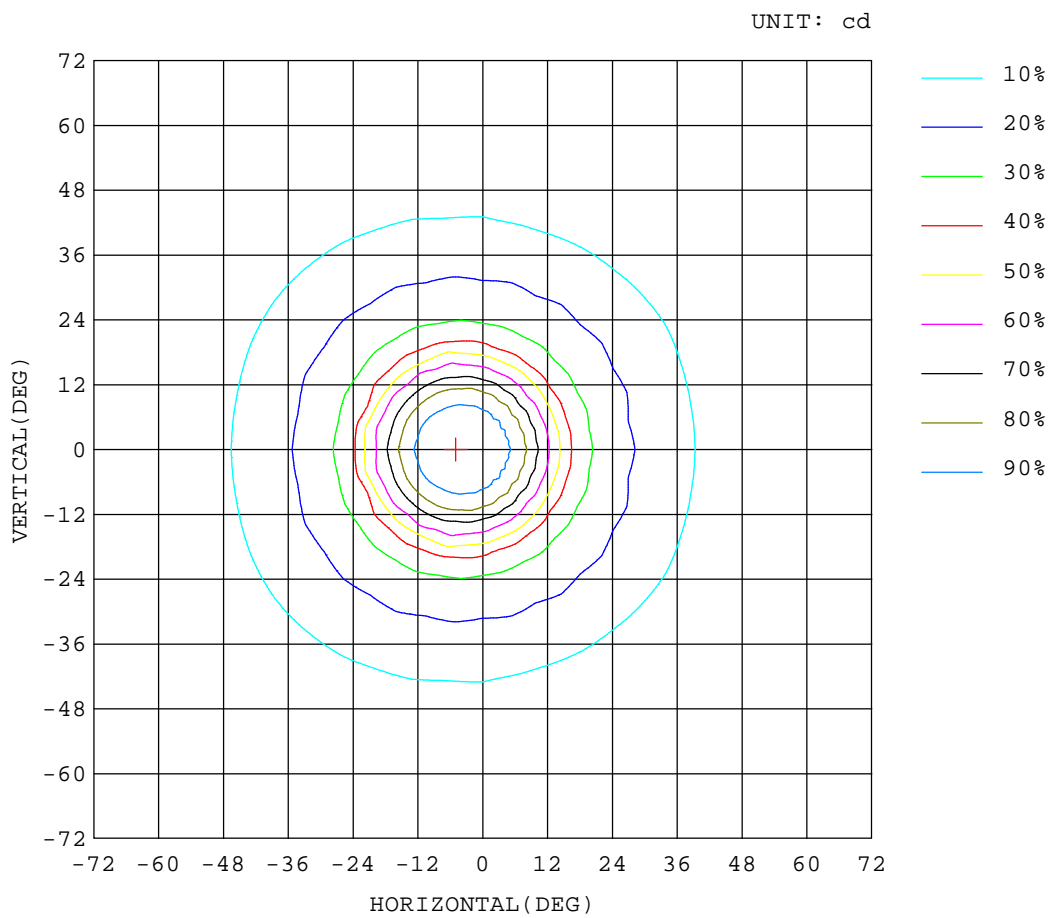
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOCANDELA DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



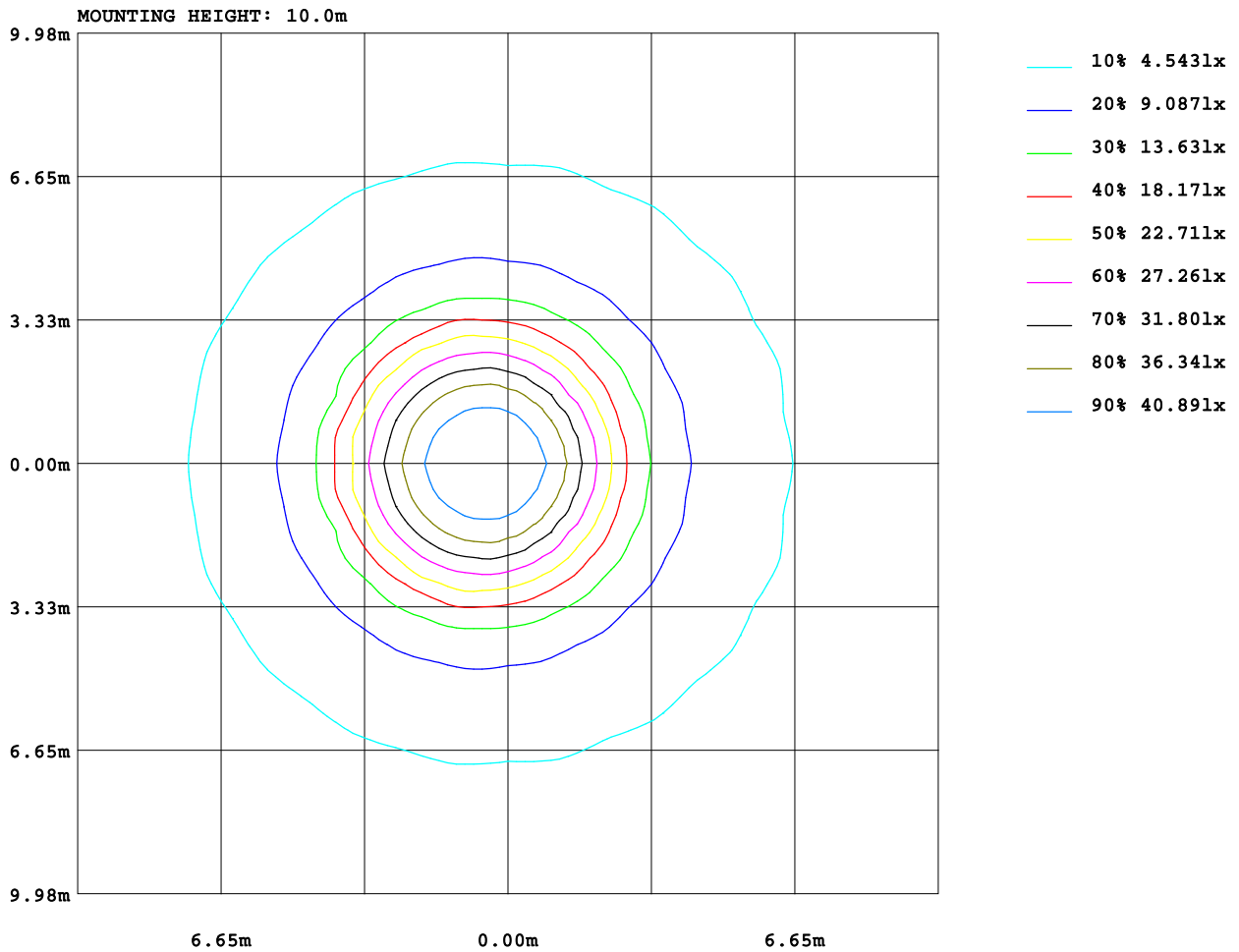
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ISOLUX DIAGRAM

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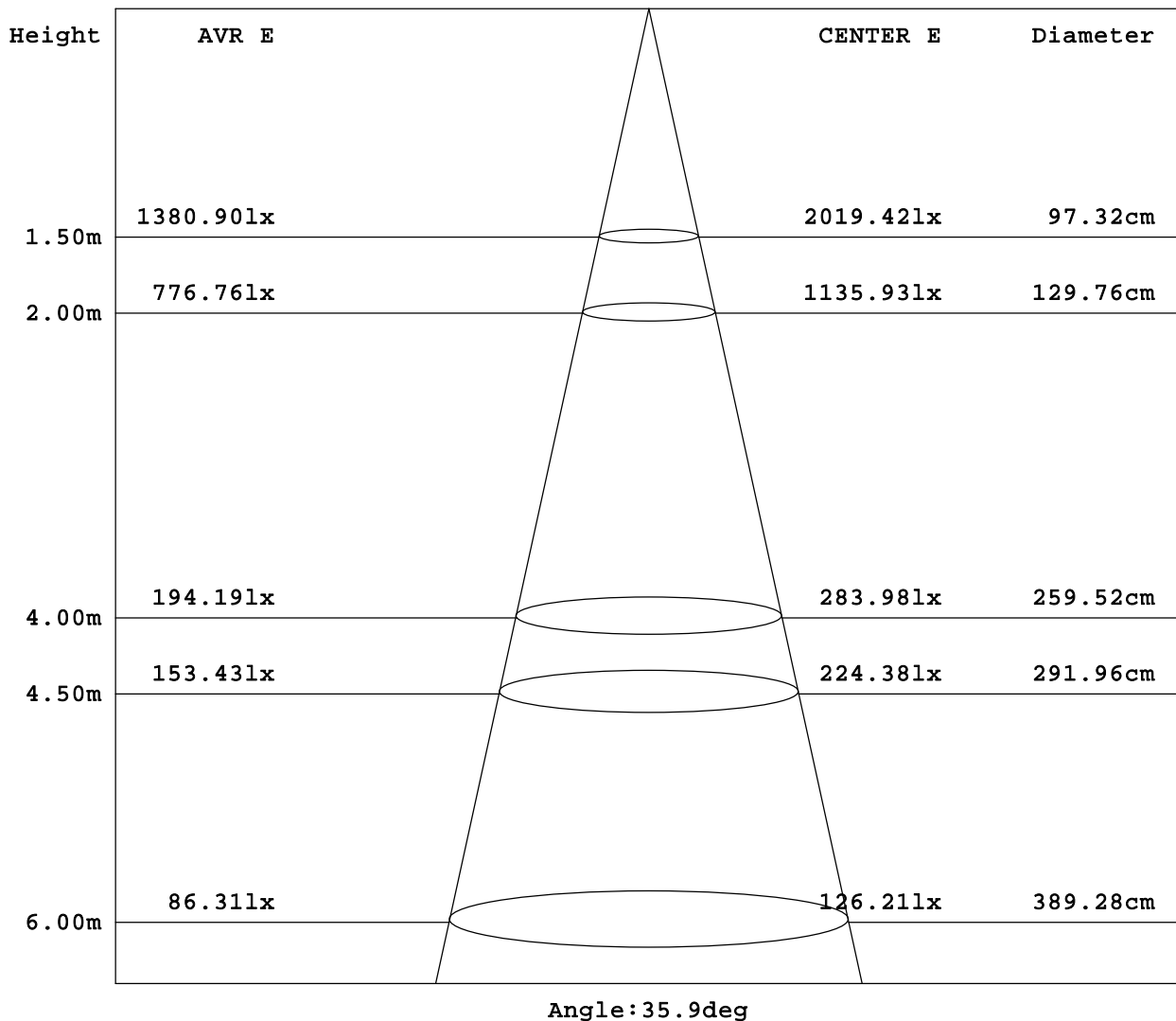
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AVERAGE AND CENTER E Figure

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AREA LUMINOUS FLUX

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	0.05	0.05	0.09	0.12	0.13	0.22	0.19	0.25	0.23	0.22	0.23	0.15	0.18	0.10	0.11	0.09	0.04	0.03	2.50	0.00	
72	0.05	0.05	0.09	0.12	0.13	0.22	0.19	0.25	0.23	0.22	0.23	0.15	0.18	0.10	0.11	0.09	0.04	0.03	2.50	0.00	
64	0.06	0.07	0.12	0.21	0.24	0.38	0.38	0.46	0.45	0.43	0.41	0.30	0.28	0.15	0.15	0.09	0.06	0.05	4.31	0.00	
56	0.07	0.11	0.17	0.33	0.40	0.55	0.64	0.72	0.76	0.71	0.64	0.54	0.44	0.28	0.22	0.10	0.08	0.06	6.80	0.00	
48	0.07	0.16	0.24	0.43	0.62	1.18	3.50	5.79	6.50	5.50	2.89	1.07	0.58	0.46	0.30	0.14	0.11	0.06	29.6	11.5	
40	0.07	0.20	0.35	0.52	2.21	8.40	13.0	14.8	15.6	15.2	13.1	8.40	2.12	0.66	0.36	0.22	0.13	0.06	95.5	84.5	
32	0.08	0.23	0.45	1.57	8.67	13.8	16.7	19.7	21.2	20.1	17.4	14.5	9.46	1.76	0.48	0.31	0.14	0.05	147	139	
24	0.09	0.23	0.52	4.72	12.1	16.3	22.9	31.6	36.8	32.4	24.1	17.6	13.3	5.67	0.69	0.33	0.13	0.06	220	214	
	0.12	0.26	0.68	7.23	13.3	19.8	34.2	56.6	67.2	58.5	36.8	21.6	14.8	9.03	0.96	0.34	0.16	0.08	342	337	
	0.14	0.32	1.02	8.48	13.9	22.7	46.5	75.4	85.2	77.8	50.2	25.3	15.6	10.2	1.48	0.41	0.20	0.09	436	430	
	0.14	0.32	1.02	8.48	13.9	22.7	46.5	75.4	85.2	77.8	50.2	25.3	15.6	10.2	1.48	0.41	0.20	0.09	436	430	
	0.12	0.26	0.68	7.23	13.3	19.8	34.2	56.6	67.2	58.5	36.8	21.6	14.8	9.03	0.96	0.34	0.16	0.08	342	337	
-24	0.09	0.23	0.52	4.72	12.1	16.3	22.9	31.6	36.8	32.4	24.1	17.6	13.3	5.67	0.69	0.33	0.13	0.06	220	214	
-32	0.08	0.23	0.45	1.57	8.67	13.8	16.7	19.7	21.2	20.1	17.4	14.5	9.46	1.76	0.48	0.31	0.14	0.05	147	139	
-40	0.07	0.20	0.35	0.52	2.21	8.40	13.0	14.8	15.6	15.2	13.1	8.40	2.12	0.66	0.36	0.22	0.13	0.06	95.5	84.5	
-48	0.07	0.16	0.24	0.43	0.62	1.18	3.50	5.79	6.50	5.50	2.89	1.07	0.58	0.46	0.30	0.14	0.11	0.06	29.6	11.5	
-56	0.07	0.11	0.17	0.33	0.40	0.55	0.64	0.72	0.76	0.71	0.64	0.54	0.44	0.28	0.22	0.10	0.08	0.06	6.80	0.00	
-64	0.06	0.07	0.12	0.21	0.24	0.38	0.38	0.46	0.45	0.43	0.41	0.30	0.28	0.15	0.15	0.09	0.06	0.05	4.31	0.00	
-72	0.05	0.05	0.09	0.12	0.13	0.22	0.19	0.25	0.23	0.22	0.23	0.15	0.18	0.10	0.11	0.09	0.04	0.03	2.50	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72	
Φ t	1.49	3.26	7.28	47.2	104	167	277	411	468	422	292	179	114	56.8	9.51	4.10	2.12	1.08	2597		
Φ a	0.00	0.00	0.00	32.2	94.7	158	268	404	461	414	284	171	104	42.1	0.00	0.00	0.00	0.00		2430	

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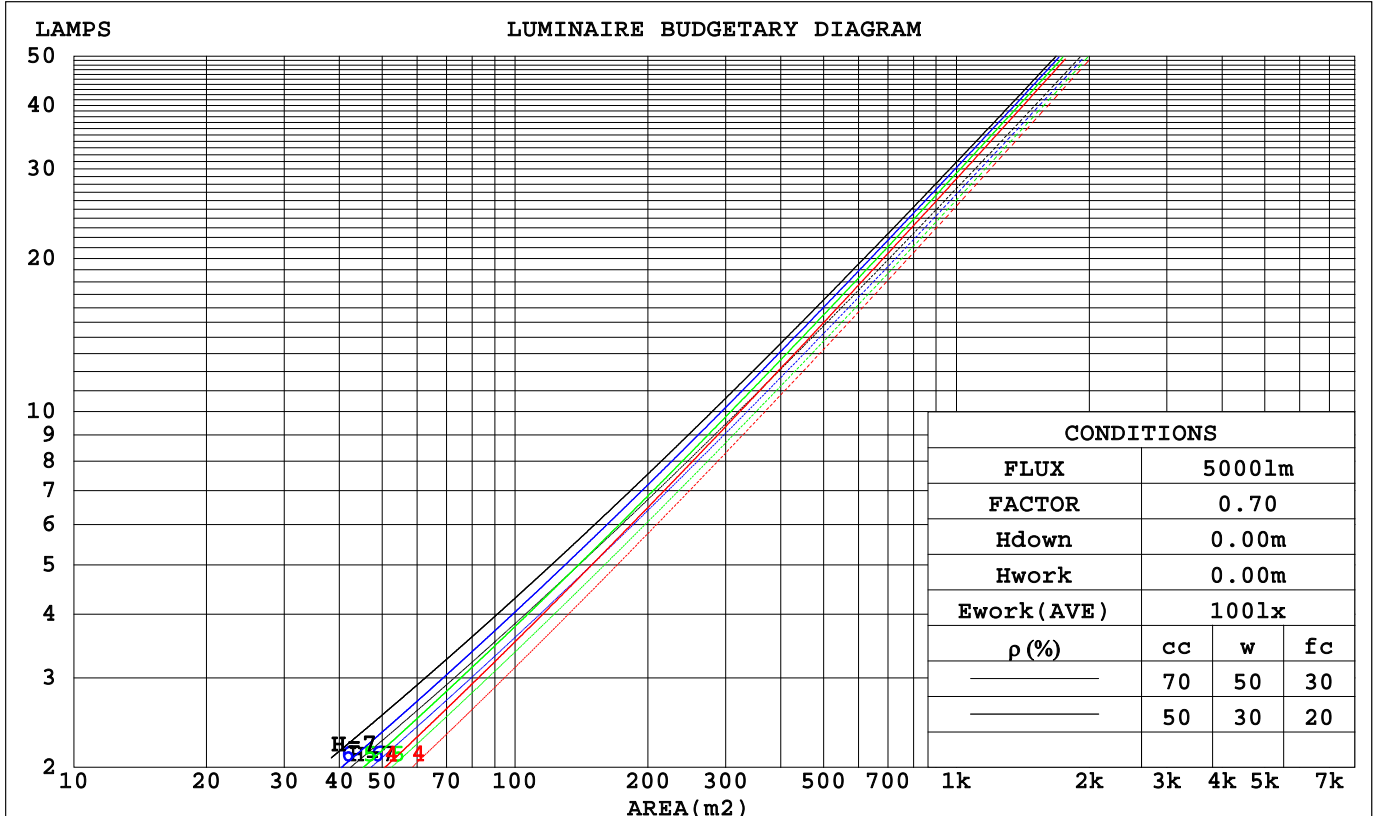
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 Remarks: LED SOURCE:CREE

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED				Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM											
NAME: DEN AM TRAN 25W				TYPE:DL-SW25N						WEIGHT:1.KG					
SPECIFICATION:AC220-240V				DIMENSION: 10M						SERIAL No.:1705479					

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99														
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93														
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86														
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.89	.86	.84	.87	.84	.82	.81														
4.0	.90	.85	.80	.89	.84	.80	.87	.82	.79	.84	.81	.78	.83	.79	.77	.75														
5.0	.84	.79	.75	.83	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.71														
6.0	.80	.74	.70	.79	.73	.69	.77	.72	.69	.76	.71	.68	.74	.71	.68	.66														
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62														
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.67	.63	.60	.59														
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.64	.60	.57	.56														
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53														


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WEC AND CCEC

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NAME: DEN AM TRAN 25W	TYPE:DL-SW25N			WEIGHT:1.KG		
SPECIFICATION:AC220-240V	DIMENSION: 10M			SERIAL No.:1705479		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.178	.101	.032	.171	.098	.031	.158	.091	.029	.146	.084	.027	.135	.078	.025	
2.0	.170	.093	.029	.164	.090	.028	.153	.085	.026	.143	.080	.025	.133	.075	.024	
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.138	.076	.023	.130	.072	.022	
4.0	.153	.080	.023	.149	.078	.023	.141	.075	.022	.133	.071	.022	.126	.068	.021	
5.0	.146	.074	.021	.142	.073	.021	.135	.070	.021	.128	.068	.020	.122	.065	.020	
6.0	.139	.070	.020	.135	.068	.020	.129	.066	.019	.123	.064	.019	.118	.062	.018	
7.0	.132	.065	.019	.129	.064	.018	.124	.063	.018	.118	.061	.018	.114	.059	.017	
8.0	.126	.062	.017	.124	.061	.017	.119	.059	.017	.114	.058	.017	.110	.056	.016	
9.0	.121	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016	
10.0	.116	.055	.015	.113	.055	.015	.109	.054	.015	.106	.052	.015	.102	.051	.015	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.178	.164	.151	.152	.141	.130	.104	.097	.090	.060	.056	.052	.019	.018	.017	
2.0	.163	.139	.119	.139	.120	.103	.095	.083	.072	.055	.048	.042	.018	.016	.014	
3.0	.150	.120	.096	.129	.104	.084	.088	.072	.059	.051	.042	.035	.016	.014	.011	
4.0	.140	.106	.079	.120	.091	.069	.083	.064	.049	.048	.037	.029	.015	.012	.009	
5.0	.131	.094	.067	.113	.081	.058	.078	.057	.041	.045	.033	.024	.014	.011	.008	
6.0	.124	.085	.057	.106	.073	.049	.073	.051	.035	.043	.030	.021	.014	.010	.007	
7.0	.117	.077	.049	.101	.067	.043	.070	.047	.030	.040	.028	.018	.013	.009	.006	
8.0	.111	.071	.043	.096	.061	.038	.066	.043	.027	.039	.025	.016	.012	.008	.005	
9.0	.106	.066	.038	.091	.057	.033	.063	.040	.024	.037	.024	.014	.012	.008	.005	
10.0	.101	.061	.034	.087	.053	.030	.061	.037	.021	.035	.022	.013	.011	.007	.004	

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 Operators:NGUYEN BA HUNG
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 Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

Uncorrected UGR Table

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED					Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM					
NAME: DEN AM TRAN 25W					TYPE:DL-SW25N		WEIGHT:1.KG			
SPECIFICATION:AC220-240V					DIMENSION: 10M		SERIAL No.:1705479			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	10.1	11.0	10.3	11.2	11.3	11.6	12.6	11.9	12.7	12.9
3H	9.9	10.8	10.2	11.0	11.2	11.5	12.4	11.8	12.6	12.8
4H	9.9	10.7	10.2	10.9	11.2	11.4	12.3	11.7	12.5	12.7
6H	9.9	10.6	10.2	10.9	11.1	11.4	12.1	11.7	12.4	12.7
8H	9.8	10.6	10.1	10.8	11.1	11.4	12.1	11.7	12.4	12.6
12H	9.8	10.5	10.1	10.8	11.1	11.3	12.0	11.7	12.3	12.6
4H 2H	9.8	10.6	10.1	10.9	11.1	11.4	12.2	11.7	12.4	12.7
3H	9.7	10.4	10.1	10.7	11.0	11.3	12.0	11.6	12.3	12.5
4H	9.7	10.3	10.1	10.7	11.0	11.2	11.9	11.6	12.2	12.5
6H	9.7	10.3	10.1	10.6	11.0	11.2	11.7	11.6	12.1	12.5
8H	9.7	10.2	10.1	10.6	10.9	11.2	11.7	11.6	12.1	12.5
12H	9.7	10.1	10.1	10.5	10.9	11.2	11.6	11.6	12.0	12.4
8H 4H	9.6	10.1	10.0	10.5	10.9	11.1	11.6	11.5	12.0	12.4
6H	9.6	10.1	10.1	10.5	10.9	11.1	11.5	11.5	11.9	12.4
8H	9.6	10.0	10.1	10.4	10.9	11.1	11.5	11.6	11.9	12.4
12H	9.6	9.9	10.1	10.4	10.9	11.1	11.4	11.6	11.9	12.4
12H 4H	9.6	10.0	10.0	10.4	10.8	11.1	11.5	11.5	11.9	12.3
6H	9.6	10.0	10.1	10.4	10.9	11.0	11.4	11.5	11.9	12.3
8H	9.6	9.9	10.1	10.4	10.8	11.1	11.4	11.5	11.8	12.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.3 / - 7.7					+ 2.8 / - 8.7				
1.5H	+ 6.0 / - 7.5					+ 5.3 / - 8.4				
2.0H	+ 2.3 / - 1.9					+ 8.4 / - 2.6				

CIE Pub.117 Corrected 2597 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

UTILIZATION FACTORS TABLE

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	78	74	84	77	73	83	77	73	69
0.80	92	86	82	92	86	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

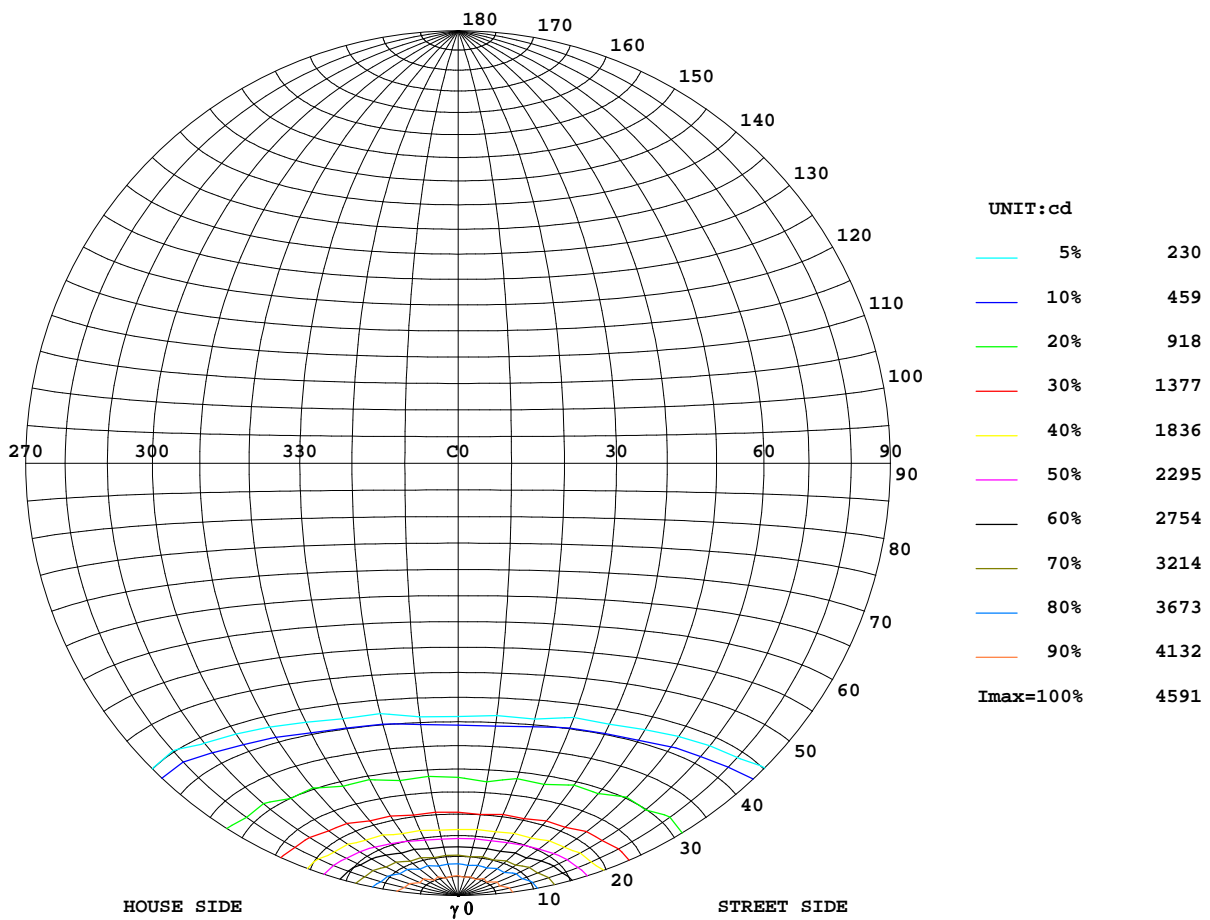
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOCANDELA DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

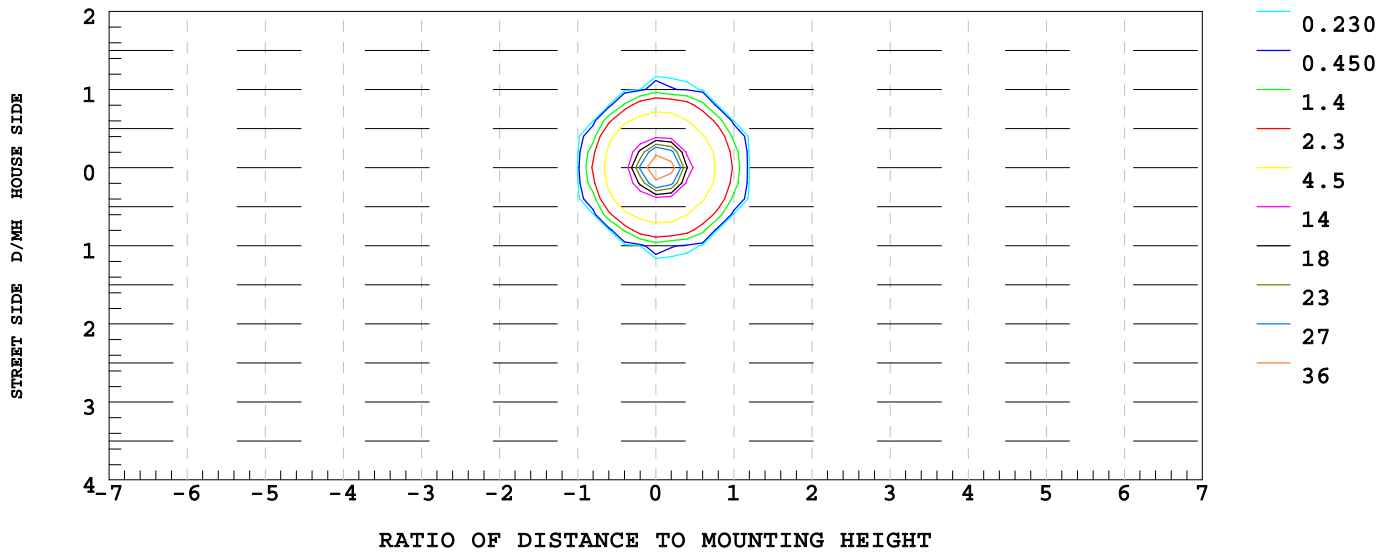
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOLUX DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

ILLUMINANCE AT MH=10 m,Enadir = 45.44 lx

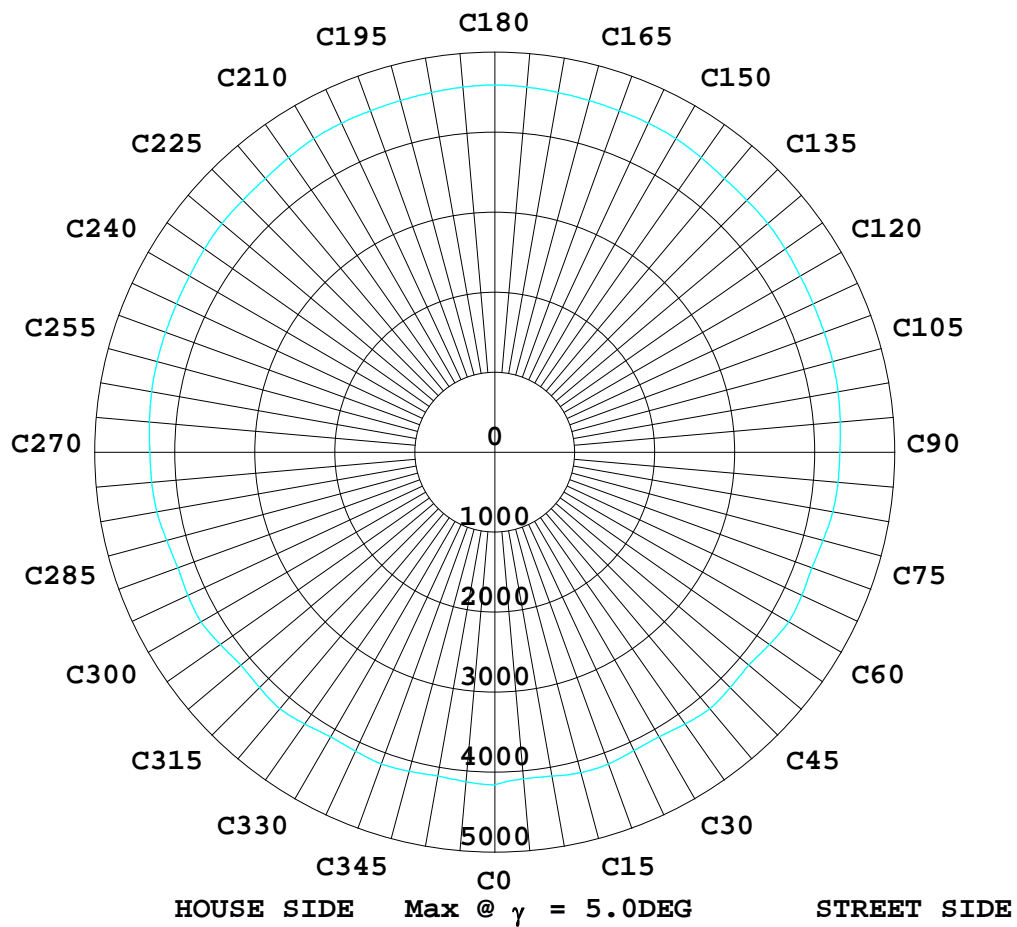

 Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

 Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOCANDELA DIAGRAM

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: cd

γ (DEG)	C(DEG)														
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
0.0	4544	4511	4517	4470	4492	4429	4469	4417	4421	4408	4390	4377	4341	4355	4312
5.0	4158	4109	4148	4106	4184	4142	4242	4219	4291	4313	4357	4381	4407	4453	4466
10.0	3277	3217	3282	3239	3389	3345	3546	3542	3724	3768	3928	3995	4071	4145	4204
15.0	2052	2106	2054	2154	2266	2375	2446	2505	2658	2842	2945	3044	3220	3349	3483
20.0	1415	1379	1432	1413	1468	1496	1570	1619	1718	1794	1919	1991	2068	2227	2400
25.0	1051	1022	1063	1049	1096	1086	1148	1149	1217	1233	1312	1339	1434	1462	1554
30.0	859	831	872	858	895	880	925	915	963	962	1010	1009	1065	1073	1122
35.0	750	732	771	749	783	760	797	782	819	807	841	840	873	869	904
40.0	380	349	408	481	480	505	567	564	663	673	718	721	767	754	787
45.0	65.2	49.5	64.7	49.7	68.0	55.8	76.0	72.3	84.1	259	227	328	401	490	514
50.0	41.2	31.0	40.7	30.5	40.7	30.5	42.0	32.7	44.9	35.6	49.2	40.2	59.6	51.0	75.1
55.0	31.5	23.1	31.4	23.1	31.7	23.4	33.0	25.0	34.7	27.2	37.2	29.0	39.2	30.7	41.0
60.0	21.9	14.8	21.9	14.9	22.7	15.5	24.0	17.2	25.9	19.6	28.2	21.6	30.3	23.1	31.4
65.0	15.2	9.20	15.0	9.00	15.2	8.90	16.4	10.2	17.2	11.9	19.3	13.6	21.2	15.2	22.7
70.0	11.8	6.70	11.4	6.20	11.4	5.70	11.8	6.50	12.3	7.60	13.3	8.10	14.1	9.00	14.8
75.0	10.3	5.60	10.0	5.20	9.80	4.60	9.80	5.00	9.70	5.20	10.0	5.30	10.0	5.40	10.0
80.0	7.90	3.20	7.50	3.30	7.80	3.10	8.20	3.70	7.90	3.90	8.20	3.90	8.20	4.10	8.00
85.0	4.30	0.60	4.10	0.40	4.30	0.20	4.60	0.70	4.60	1.50	5.70	2.10	6.20	2.60	6.10
90.0	3.70	0.40	3.50	0.10	3.60	0.00	3.80	0.30	3.60	0.70	3.90	0.60	4.00	0.80	3.90
95.0	3.50	0.40	3.30	0.10	3.30	0.00	3.50	0.30	3.30	0.60	3.50	0.40	3.30	0.50	3.00
100.0	3.20	0.40	3.10	0.30	3.10	0.00	3.30	0.30	3.00	0.60	3.20	0.40	3.00	0.50	2.70
105.0	3.00	0.50	2.80	0.30	3.00	0.00	3.10	0.40	2.90	0.70	3.00	0.50	2.90	0.60	2.50
110.0	2.90	0.60	2.80	0.30	2.90	0.00	2.90	0.50	2.70	0.80	2.80	0.50	2.60	0.60	2.30
115.0	3.00	0.90	2.80	0.60	2.90	0.30	2.90	0.60	2.70	0.90	2.70	0.60	2.50	0.70	2.20
120.0	3.20	1.30	3.00	1.10	3.10	0.70	3.20	1.00	2.80	1.20	2.90	0.90	2.60	0.90	2.30
125.0	3.60	1.90	3.50	1.70	3.50	1.30	3.60	1.60	3.20	1.80	3.20	1.40	2.90	1.30	2.50
130.0	4.30	2.60	4.00	2.40	4.10	2.00	4.20	2.20	3.70	2.40	3.70	2.10	3.40	2.00	2.80
135.0	5.00	3.50	4.70	3.20	4.70	2.80	4.80	3.00	4.30	3.20	4.20	2.70	3.90	2.70	3.40
140.0	5.90	4.60	5.70	4.20	5.60	3.70	5.60	4.00	5.10	4.00	5.00	3.60	4.50	3.40	4.00
145.0	7.20	6.00	7.10	5.70	7.00	5.20	6.80	5.30	6.20	5.30	6.00	4.70	5.40	4.40	4.80
150.0	8.80	7.80	8.70	7.50	8.70	6.90	8.40	6.90	7.70	6.70	7.30	6.10	6.80	5.80	6.10
155.0	10.7	9.70	10.4	9.50	10.5	8.80	10.1	8.80	9.40	8.60	9.00	7.90	8.50	7.60	7.60
160.0	12.3	11.4	12.0	11.1	12.0	10.4	11.8	10.5	11.3	10.5	10.9	9.80	10.2	9.50	9.40
165.0	13.2	12.1	12.9	11.9	12.9	11.3	12.9	11.8	12.6	11.9	12.3	11.3	11.8	11.1	11.1
170.0	13.6	12.4	13.0	12.0	13.0	11.5	13.2	12.2	13.0	12.6	12.9	12.0	12.6	12.0	12.2
175.0	13.6	12.4	13.0	12.0	12.9	11.5	13.0	12.1	13.0	12.8	13.0	12.2	12.8	12.3	12.4
180.0	13.4	12.5	12.7	12.0	12.7	11.5	12.8	12.1	12.8	12.9	13.0	12.4	12.6	12.4	12.4

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: cd

C(DEG) γ (DEG)	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
0.0	4355	4320	4331	4346	4331	4320	4355	4312	4355	4341	4377	4390	4408	4421	4417
5.0	4529	4543	4566	4591	4566	4543	4529	4466	4453	4407	4381	4357	4313	4291	4219
10.0	4280	4342	4361	4408	4361	4342	4280	4204	4145	4071	3995	3928	3768	3724	3542
15.0	3590	3684	3710	3781	3710	3684	3590	3483	3349	3220	3044	2945	2842	2658	2505
20.0	2501	2617	2778	2665	2778	2617	2501	2400	2227	2068	1991	1919	1794	1718	1619
25.0	1576	1609	1646	1700	1646	1609	1576	1554	1462	1434	1339	1312	1233	1217	1149
30.0	1122	1161	1146	1186	1146	1161	1122	1122	1073	1065	1009	1010	962	963	915
35.0	897	928	908	927	908	928	897	904	869	873	840	841	807	819	782
40.0	776	805	771	778	771	805	776	787	754	767	721	718	673	663	564
45.0	527	595	574	608	574	595	527	514	490	401	328	227	259	84.1	72.3
50.0	62.0	78.1	103	84.7	103	78.1	62.0	75.1	51.0	59.6	40.2	49.2	35.6	44.9	32.7
55.0	32.4	43.5	34.0	46.2	34.0	43.5	32.4	41.0	30.7	39.2	29.0	37.2	27.2	34.7	25.0
60.0	24.5	33.1	25.0	34.5	25.0	33.1	24.5	31.4	23.1	30.3	21.6	28.2	19.6	25.9	17.2
65.0	16.5	23.9	17.0	24.7	17.0	23.9	16.5	22.7	15.2	21.2	13.6	19.3	11.9	17.2	10.2
70.0	9.80	16.0	10.0	16.5	10.0	16.0	9.80	14.8	9.00	14.1	8.10	13.3	7.60	12.3	6.50
75.0	5.80	11.0	5.90	11.5	5.90	11.0	5.80	10.0	5.40	10.0	5.30	10.0	5.20	9.70	5.00
80.0	4.40	8.70	4.40	9.40	4.40	8.70	4.40	8.00	4.10	8.20	3.90	8.20	3.90	7.90	3.70
85.0	3.10	7.00	3.10	7.50	3.10	7.00	3.10	6.10	2.60	6.20	2.10	5.70	1.50	4.60	0.70
90.0	1.10	4.40	0.80	4.70	0.80	4.40	1.10	3.90	0.80	4.00	0.60	3.90	0.70	3.60	0.30
95.0	0.60	3.50	0.30	3.80	0.30	3.50	0.60	3.00	0.50	3.30	0.40	3.50	0.60	3.30	0.30
100.0	0.60	3.30	0.40	3.50	0.40	3.30	0.60	2.70	0.50	3.00	0.40	3.20	0.60	3.00	0.30
105.0	0.60	3.00	0.40	3.30	0.40	3.00	0.60	2.50	0.60	2.90	0.50	3.00	0.70	2.90	0.40
110.0	0.70	2.80	0.40	3.10	0.40	2.80	0.70	2.30	0.60	2.60	0.50	2.80	0.80	2.70	0.50
115.0	0.80	2.60	0.40	3.00	0.40	2.60	0.80	2.20	0.70	2.50	0.60	2.70	0.90	2.70	0.60
120.0	1.00	2.60	0.70	2.90	0.70	2.60	1.00	2.30	0.90	2.60	0.90	2.90	1.20	2.80	1.00
125.0	1.40	2.80	1.00	3.10	1.00	2.80	1.40	2.50	1.30	2.90	1.40	3.20	1.80	3.20	1.60
130.0	2.00	3.20	1.60	3.50	1.60	3.20	2.00	2.80	2.00	3.40	2.10	3.70	2.40	3.70	2.20
135.0	2.60	3.80	2.30	4.00	2.30	3.80	2.60	3.40	2.70	3.90	2.70	4.20	3.20	4.30	3.00
140.0	3.40	4.30	3.00	4.60	3.00	4.30	3.40	4.00	3.40	4.50	3.60	5.00	4.00	5.10	4.00
145.0	4.30	5.10	3.90	5.40	3.90	5.10	4.30	4.80	4.40	5.40	4.70	6.00	5.30	6.20	5.30
150.0	5.70	6.30	5.20	6.50	5.20	6.30	5.70	6.10	5.80	6.80	6.10	7.30	6.70	7.70	6.90
155.0	7.30	7.80	6.90	7.90	6.90	7.80	7.30	7.60	7.60	8.50	7.90	9.00	8.60	9.40	8.80
160.0	9.20	9.70	8.80	9.80	8.80	9.70	9.20	9.40	9.50	10.2	9.80	10.9	10.5	11.3	10.5
165.0	11.0	11.5	10.8	11.7	10.8	11.5	11.0	11.1	11.1	11.8	11.3	12.3	11.9	12.6	11.8
170.0	12.2	12.8	12.1	13.0	12.1	12.8	12.2	12.2	12.0	12.6	12.0	12.9	12.6	13.0	12.2
175.0	12.5	13.2	12.7	13.7	12.7	13.2	12.5	12.4	12.3	12.8	12.2	13.0	12.8	13.0	12.1
180.0	12.7	13.0	12.9	13.9	12.9	13.0	12.7	12.4	12.4	12.6	12.4	13.0	12.9	12.8	12.1

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 06032018

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI ,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 25W	TYPE:DL-SW25N	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: cd

γ (DEG)	C(DEG)					
	300	310	320	330	340	350
0.0	4469	4429	4492	4470	4517	4511
5.0	4242	4142	4184	4106	4148	4109
10.0	3546	3345	3389	3239	3282	3217
15.0	2446	2375	2266	2154	2054	2106
20.0	1570	1496	1468	1413	1432	1379
25.0	1148	1086	1096	1049	1063	1022
30.0	925	880	895	858	872	831
35.0	797	760	783	749	771	732
40.0	567	505	480	481	408	349
45.0	76.0	55.8	68.0	49.7	64.7	49.5
50.0	42.0	30.5	40.7	30.5	40.7	31.0
55.0	33.0	23.4	31.7	23.1	31.4	23.1
60.0	24.0	15.5	22.7	14.9	21.9	14.8
65.0	16.4	8.90	15.2	9.00	15.0	9.20
70.0	11.8	5.70	11.4	6.20	11.4	6.70
75.0	9.80	4.60	9.80	5.20	10.0	5.60
80.0	8.20	3.10	7.80	3.30	7.50	3.20
85.0	4.60	0.20	4.30	0.40	4.10	0.60
90.0	3.80	0.00	3.60	0.10	3.50	0.40
95.0	3.50	0.00	3.30	0.10	3.30	0.40
100.0	3.30	0.00	3.10	0.30	3.10	0.40
105.0	3.10	0.00	3.00	0.30	2.80	0.50
110.0	2.90	0.00	2.90	0.30	2.80	0.60
115.0	2.90	0.30	2.90	0.60	2.80	0.90
120.0	3.20	0.70	3.10	1.10	3.00	1.30
125.0	3.60	1.30	3.50	1.70	3.50	1.90
130.0	4.20	2.00	4.10	2.40	4.00	2.60
135.0	4.80	2.80	4.70	3.20	4.70	3.50
140.0	5.60	3.70	5.60	4.20	5.70	4.60
145.0	6.80	5.20	7.00	5.70	7.10	6.00
150.0	8.40	6.90	8.70	7.50	8.70	7.80
155.0	10.1	8.80	10.5	9.50	10.4	9.70
160.0	11.8	10.4	12.0	11.1	12.0	11.4
165.0	12.9	11.3	12.9	11.9	12.9	12.1
170.0	13.2	11.5	13.0	12.0	13.0	12.4
175.0	13.0	11.5	12.9	12.0	13.0	12.4
180.0	12.8	11.5	12.7	12.0	12.7	12.5

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-06-2019

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE