

LAMP PHOTOMETRIC REPORT

MODEL: DL-RW30C

POWER: 30W

VOLTAGE: 220V

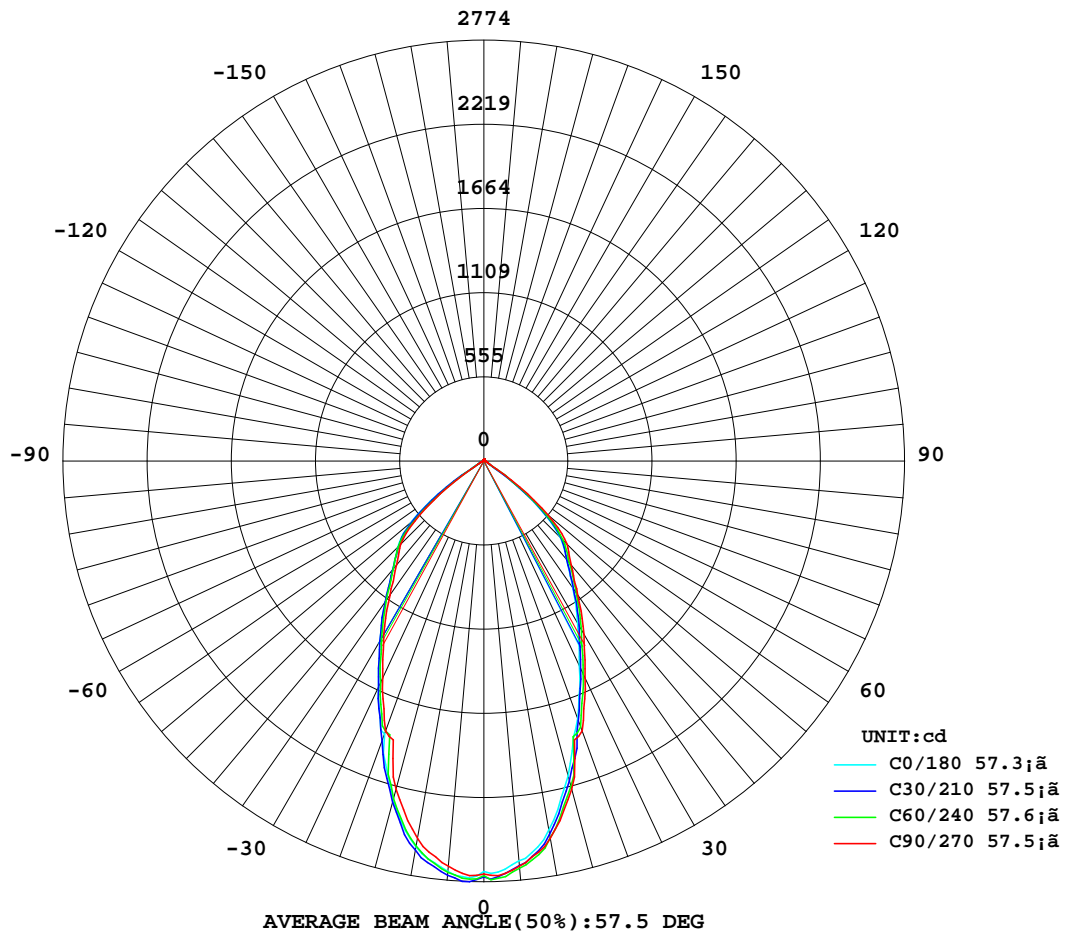
WORKING VOLTAGE: 219.9V

MANUFACTURER: CONG TY CO PHAN VINALED

TOTAL FLUX: 3103.8 lm

Efficiency: 102.09 lm/W

Test: U: 219.8V I: 0.146A P: 30.40W PF: -0.942



Test System:LSG-1800
Temperature:25.3DEG
Operators:NGUYEN BA HUNG
Test Date:03-04-2019

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

ZONAL FLUX DIAGRAM

Report number: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	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	2714	2692	2681	2641	2646	2641	2681	2692	0- 5	65.07	65.07
10.0	2582	2547	2525	2460	2468	2460	2525	2547	5- 10	187.1	252.2
15.0	2311	2264	2241	2143	2149	2143	2241	2264	10- 15	282.6	534.9
20.0	1916	1923	1894	1808	1807	1808	1894	1923	15- 20	335.9	870.8
25.0	1642	1600	1580	1497	1489	1497	1580	1600	20- 25	359.4	1230
30.0	1375	1324	1323	1240	1240	1240	1323	1324	25- 30	360.3	1591
35.0	1133	1104	1081	1019	1026	1019	1081	1104	30- 35	348.5	1939
40.0	931.9	907.6	897.5	837.6	851.0	837.6	897.5	907.6	35- 40	324.5	2264
45.0	803.4	768.4	776.0	695.5	714.0	695.5	776.0	768.4	40- 45	302.7	2567
50.0	620.0	578.5	552.2	456.7	466.5	456.7	552.2	578.5	45- 50	261.6	2828
55.0	304.3	275.3	219.6	138.9	153.5	138.9	219.6	275.3	50- 55	162.1	2990
60.0	58.79	39.09	46.29	30.19	39.79	30.19	46.29	39.09	55- 60	47.50	3038
65.0	30.30	21.40	28.40	19.90	26.49	19.90	28.40	21.40	60- 65	15.30	3053
70.0	23.29	16.20	22.20	13.90	19.40	13.90	22.20	16.20	65- 70	11.21	3064
75.0	13.09	5.900	11.10	3.800	9.099	3.800	11.10	5.900	70- 75	7.072	3071
80.0	7.400	2.300	7.000	1.900	6.500	1.900	7.000	2.300	75- 80	3.186	3075
85.0	5.500	1.100	5.200	0.800	4.800	0.800	5.200	1.100	80- 85	2.173	3077
90.0	4.300	0.300	4.100	0.200	3.800	0.200	4.100	0.300	85- 90	1.533	3078
95.0	3.700	0.200	3.500	0.200	3.500	0.200	3.500	0.200	90- 95	1.197	3080
100.0	3.300	0.200	3.300	0.200	3.200	0.200	3.300	0.200	95-100	1.096	3081
105.0	3.200	0.400	3.100	0.400	3.000	0.400	3.100	0.400	100-105	1.033	3082
110.0	3.100	0.500	3.100	0.700	3.100	0.700	3.100	0.500	105-110	1.039	3083
115.0	3.300	1.000	3.300	1.100	3.400	1.100	3.300	1.000	110-115	1.126	3084
120.0	3.600	1.600	3.700	1.800	3.800	1.800	3.700	1.600	115-120	1.285	3085
125.0	4.100	2.300	4.200	2.500	4.300	2.500	4.200	2.300	120-125	1.479	3087
130.0	4.700	2.900	4.700	3.100	4.900	3.100	4.700	2.900	125-130	1.655	3088
135.0	5.300	3.700	5.400	3.900	5.500	3.900	5.400	3.700	130-135	1.793	3090
140.0	6.000	4.500	6.100	4.800	6.200	4.800	6.100	4.500	135-140	1.916	3092
145.0	6.800	5.500	6.900	5.800	7.100	5.800	6.900	5.500	140-145	2.010	3094
150.0	7.700	6.500	7.900	6.800	8.100	6.800	7.900	6.500	145-150	2.052	3096
155.0	8.700	7.600	8.800	7.900	9.000	7.900	8.800	7.600	150-155	2.025	3098
160.0	9.600	8.500	9.700	8.800	9.900	8.800	9.700	8.500	155-160	1.878	3100
165.0	10.40	9.300	10.40	9.500	10.59	9.500	10.40	9.300	160-165	1.611	3102
170.0	11.00	10.00	11.10	10.10	11.10	10.10	11.10	10.00	165-170	1.239	3103
175.0	11.50	10.40	11.50	10.50	11.50	10.50	11.50	10.40	170-175	0.782	3104
180.0	11.70	10.80	11.59	10.80	11.50	10.80	11.59	10.80	175-180	0.268	3104
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

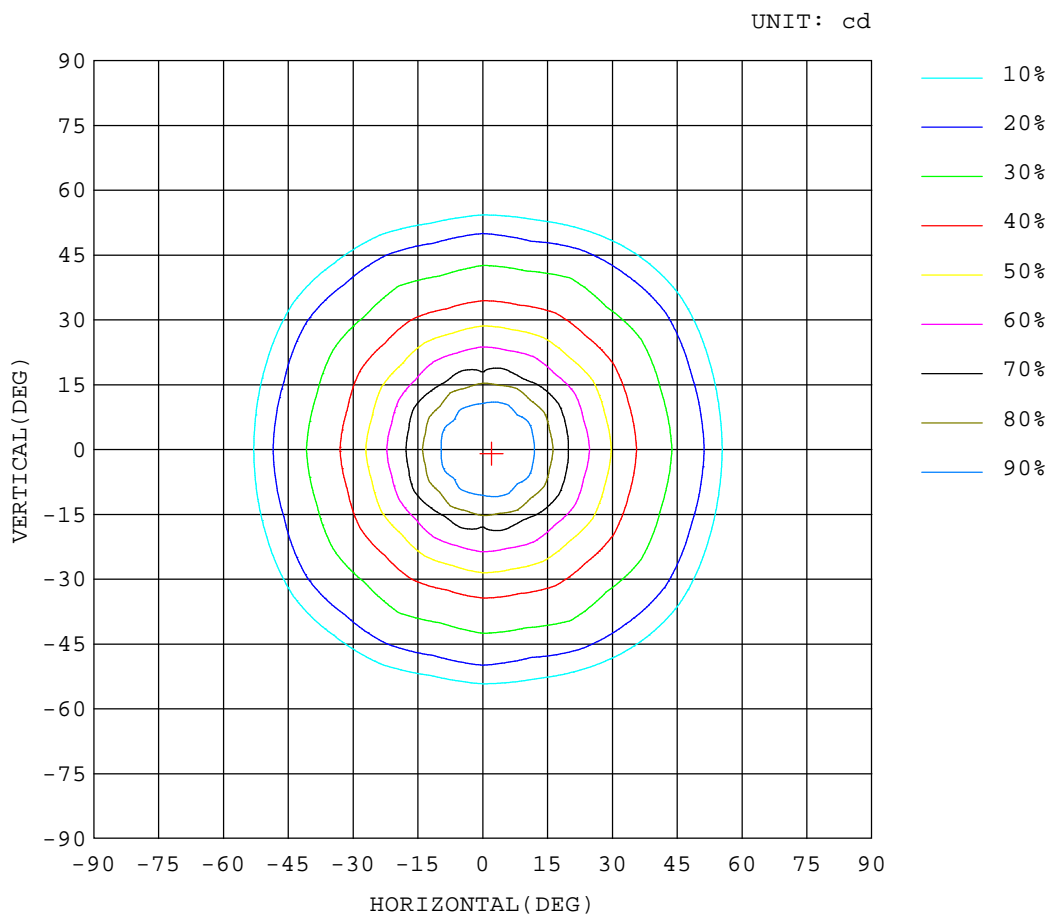
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



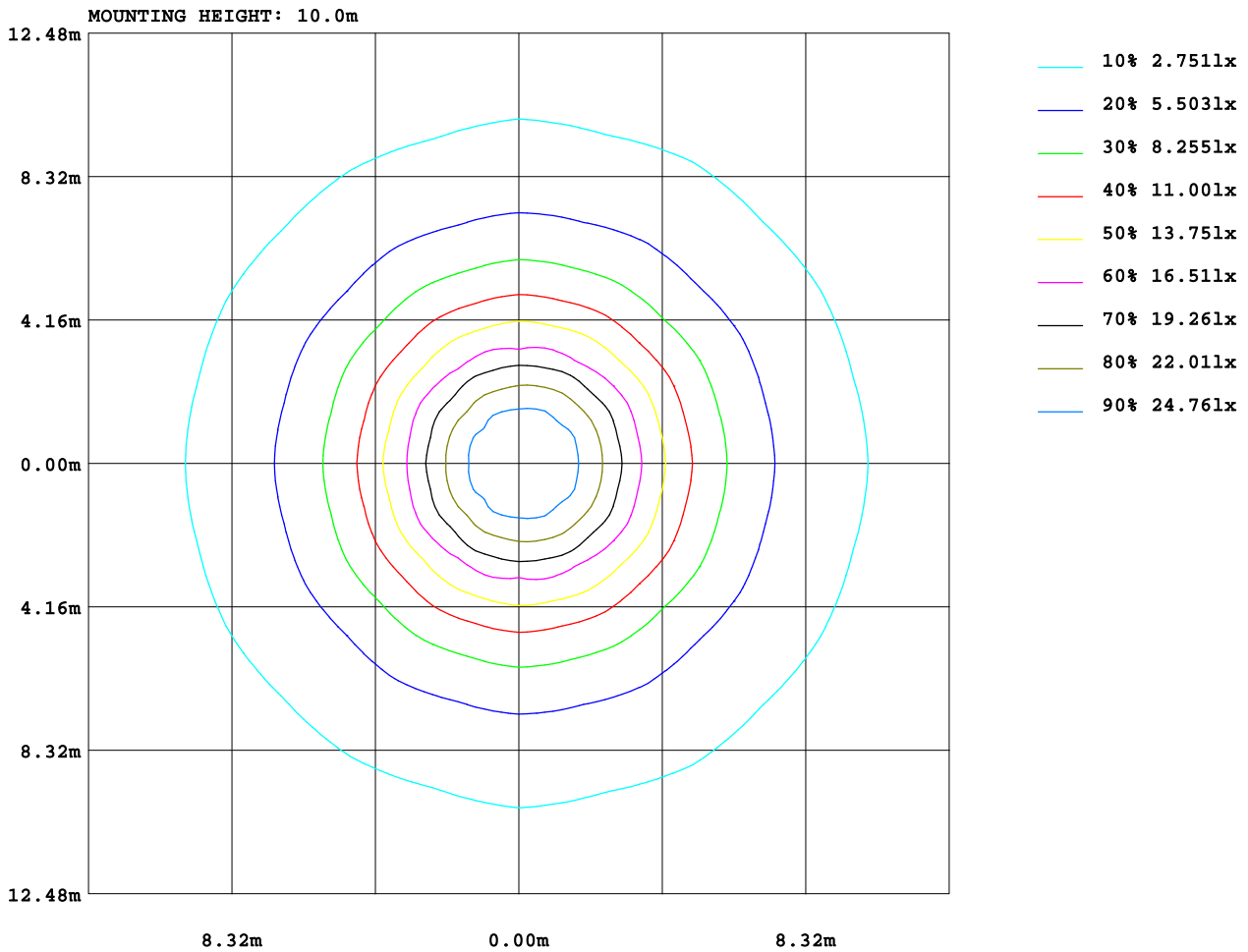
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ISOLUX DIAGRAM

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SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



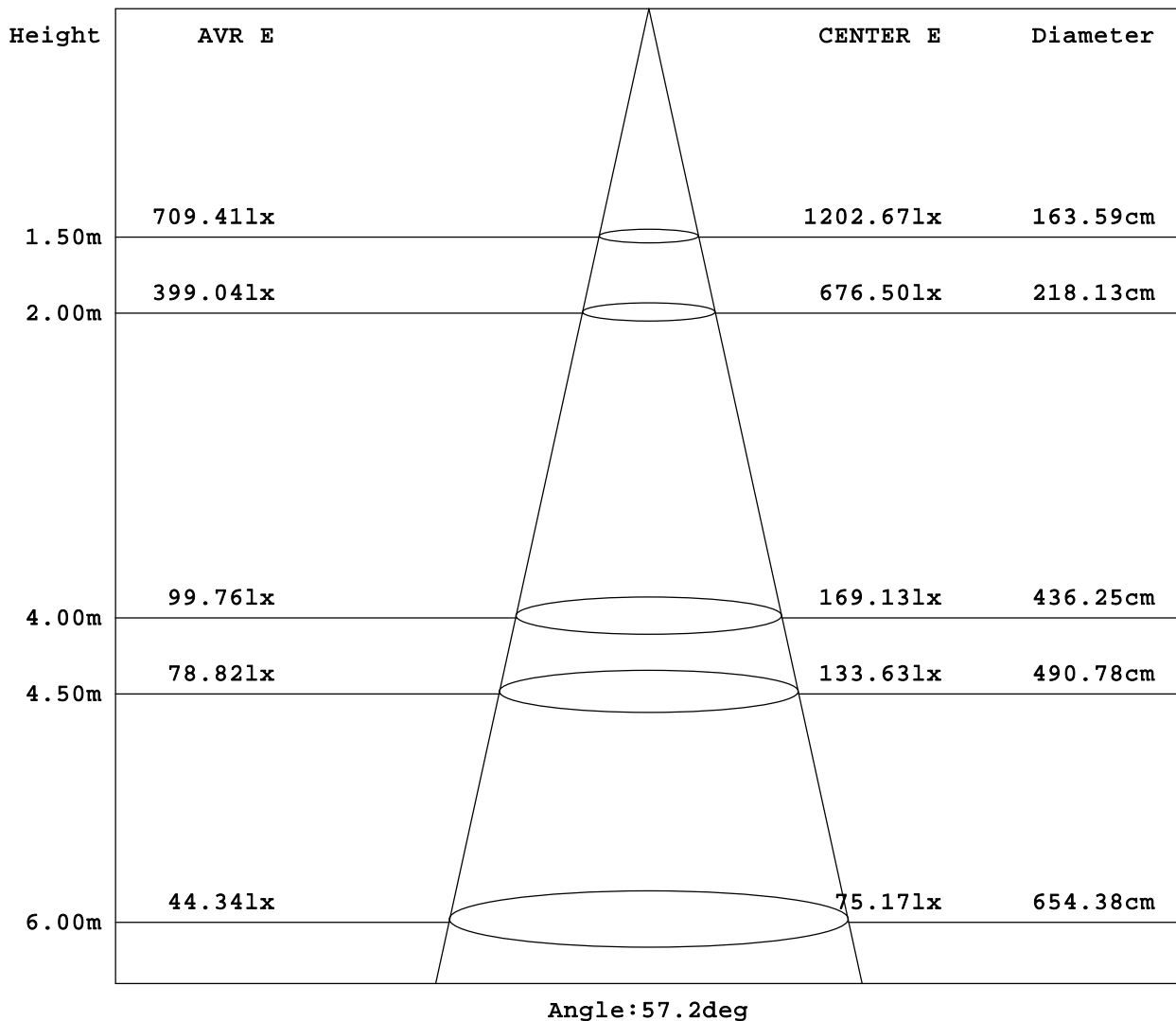
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AREA LUMINOUS FLUX

Report number: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a					
	0.01	0.01	0.04	0.06	0.03	0.09	0.11	0.06	0.12	0.12	0.06	0.12	0.10	0.04	0.07	0.05	0.01	0.01	1.09	0.00						
90	0.01	0.01	0.04	0.06	0.03	0.09	0.11	0.06	0.12	0.12	0.06	0.12	0.10	0.04	0.07	0.05	0.01	0.01	1.09	0.00						
80	0.01	0.01	0.05	0.09	0.06	0.16	0.24	0.20	0.31	0.32	0.22	0.26	0.18	0.08	0.10	0.06	0.01	0.01	2.36	0.00						
70	0.01	0.02	0.06	0.15	0.21	0.44	0.65	0.63	0.81	0.83	0.69	0.72	0.49	0.27	0.19	0.07	0.02	0.01	6.27	0.00						
60	0.01	0.02	0.08	0.31	0.46	0.76	2.29	4.34	6.66	7.06	5.30	3.12	1.04	0.53	0.37	0.11	0.02	0.01	32.5	14.2						
50	0.01	0.03	0.13	0.43	0.96	4.87	12.9	18.5	21.8	22.1	19.7	15.0	7.43	1.68	0.50	0.17	0.03	0.01	127	118						
40	0.01	0.04	0.18	0.54	4.43	14.1	21.9	28.0	31.8	32.4	29.4	23.7	16.6	7.00	0.82	0.22	0.05	0.01	212	206						
30	0.01	0.05	0.24	1.00	9.73	19.8	28.6	39.0	46.2	47.0	41.0	30.9	21.7	12.4	2.15	0.27	0.08	0.01	300	296						
20	0.01	0.07	0.29	2.24	12.9	23.0	35.8	51.2	64.3	65.8	54.4	39.1	25.3	15.2	4.06	0.35	0.10	0.01	395	391						
10	0.01	0.09	0.34	3.26	14.6	25.1	40.3	61.0	78.0	79.8	65.4	44.2	27.8	16.8	5.37	0.42	0.11	0.02	463	460						
0	0.01	0.09	0.34	3.26	14.6	25.1	40.3	61.0	78.0	79.8	65.4	44.2	27.8	16.8	5.37	0.42	0.11	0.02	463	460						
-10	0.01	0.07	0.29	2.24	12.9	23.0	35.8	51.2	64.3	65.8	54.4	39.1	25.3	15.2	4.06	0.35	0.10	0.01	395	391						
-20	0.01	0.05	0.24	1.00	9.73	19.8	28.6	39.0	46.2	47.0	41.0	30.9	21.7	12.4	2.15	0.27	0.08	0.01	300	296						
-30	0.01	0.04	0.18	0.54	4.43	14.1	21.9	28.0	31.8	32.4	29.4	23.7	16.6	7.00	0.82	0.22	0.05	0.01	212	206						
-40	0.01	0.03	0.13	0.43	0.96	4.87	12.9	18.5	21.8	22.1	19.7	15.0	7.43	1.68	0.50	0.17	0.03	0.01	127	118						
-50	0.01	0.02	0.08	0.31	0.46	0.76	2.29	4.34	6.66	7.06	5.30	3.12	1.04	0.53	0.37	0.11	0.02	0.01	32.5	14.2						
-60	0.01	0.02	0.06	0.15	0.21	0.44	0.65	0.63	0.81	0.83	0.69	0.72	0.49	0.27	0.19	0.07	0.02	0.01	6.27	0.00						
-70	0.01	0.01	0.05	0.09	0.06	0.16	0.24	0.20	0.31	0.32	0.22	0.26	0.18	0.08	0.10	0.06	0.01	0.01	2.36	0.00						
-80	0.01	0.01	0.04	0.06	0.03	0.09	0.11	0.06	0.12	0.12	0.06	0.12	0.10	0.04	0.07	0.05	0.01	0.01	1.09	0.00						
-90	0.01	0.01	0.04	0.06	0.03	0.09	0.11	0.06	0.12	0.12	0.06	0.12	0.10	0.04	0.07	0.05	0.01	0.01	1.09	0.00						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	0.18	0.67	2.83	16.1	86.9	177	286	406	501	511	433	315	202	108	27.2	3.45	0.88	0.20	3104							
Φ a	0.00	0.00	0.00	5.44	78.2	170	278	400	493	505	426	307	195	100	15.1	0.00	0.00	0.00		2971						

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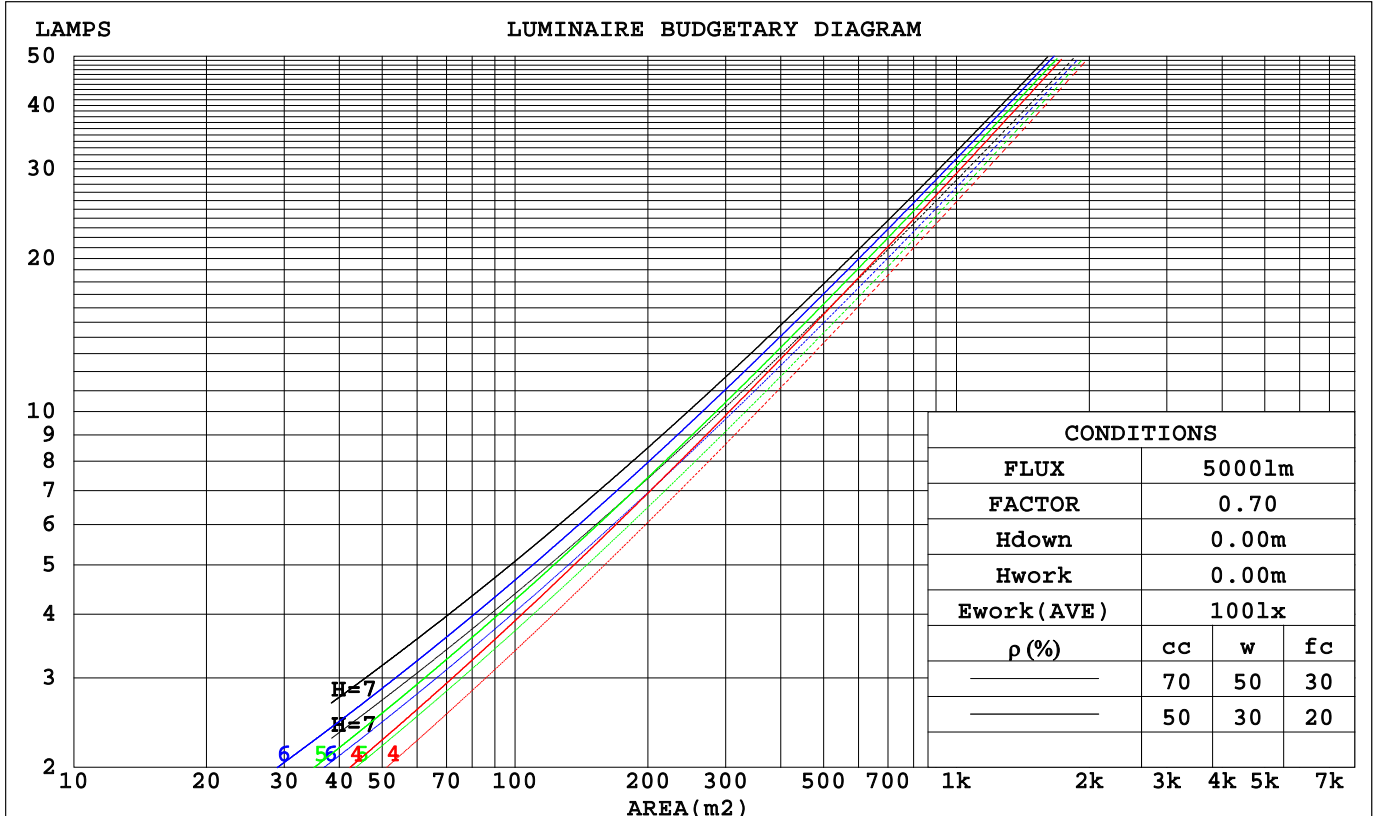
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 Humidity:65.0%
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 Remarks: LED SOURCE:CREE

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED				Address:152/24 THANH THAI,P.12,Q.10,TP.HCM											
NAME: DEN AM TRAN 30W				TYPE:DL-RW30C						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	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	.90	.95	.91	.98	.94	.90	.95	.91	.88	.91	.89	.86	.88	.86	.84	.82
3.0	.91	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.82	.79	.76	.74
4.0	.84	.78	.73	.83	.77	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.67
5.0	.77	.71	.65	.76	.70	.65	.74	.69	.64	.72	.68	.64	.71	.67	.63	.61
6.0	.71	.64	.60	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.58	.56
7.0	.66	.59	.54	.65	.59	.54	.64	.58	.54	.63	.57	.53	.61	.57	.53	.51
8.0	.62	.55	.50	.61	.54	.50	.60	.54	.50	.59	.53	.49	.57	.53	.49	.47
9.0	.57	.51	.46	.57	.50	.46	.56	.50	.46	.55	.49	.46	.54	.49	.45	.44
10.0	.54	.47	.43	.53	.47	.43	.52	.47	.43	.51	.46	.42	.51	.46	.42	.41


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WEC AND CCEC

Report number: 04032019

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NAME: DEN AM TRAN 30W	TYPE:DL-RW30C			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	.205	.117	.037	.198	.113	.036	.185	.106	.034	.173	.100	.032	.161	.094	.030	
2.0	.199	.109	.034	.193	.106	.033	.182	.101	.031	.172	.096	.030	.162	.092	.029	
3.0	.191	.102	.030	.186	.100	.030	.176	.095	.029	.167	.092	.028	.159	.088	.027	
4.0	.182	.095	.028	.178	.093	.027	.169	.090	.027	.161	.086	.026	.154	.083	.025	
5.0	.173	.088	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	.148	.079	.024	
6.0	.165	.083	.024	.161	.081	.023	.154	.079	.023	.148	.077	.023	.142	.075	.022	
7.0	.157	.077	.022	.154	.077	.022	.148	.075	.021	.142	.073	.021	.137	.071	.021	
8.0	.149	.073	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.131	.067	.020	
9.0	.142	.069	.019	.140	.068	.019	.135	.067	.019	.130	.065	.019	.126	.064	.018	
10.0	.135	.065	.018	.133	.064	.018	.129	.063	.018	.125	.062	.018	.121	.061	.017	

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	.179	.163	.149	.153	.140	.128	.105	.096	.089	.060	.056	.052	.019	.018	.017	
2.0	.166	.139	.116	.142	.119	.100	.098	.083	.070	.056	.048	.041	.018	.016	.013	
3.0	.156	.120	.092	.133	.104	.080	.092	.072	.056	.053	.042	.033	.017	.014	.011	
4.0	.147	.106	.075	.126	.092	.065	.087	.064	.046	.050	.037	.027	.016	.012	.009	
5.0	.139	.095	.062	.119	.082	.054	.082	.057	.038	.048	.034	.023	.015	.011	.007	
6.0	.132	.086	.053	.114	.074	.046	.078	.052	.032	.045	.031	.019	.015	.010	.006	
7.0	.126	.079	.045	.108	.068	.040	.075	.048	.028	.044	.028	.017	.014	.009	.006	
8.0	.120	.073	.040	.104	.063	.035	.072	.044	.025	.042	.026	.015	.013	.009	.005	
9.0	.115	.068	.035	.099	.059	.031	.069	.041	.022	.040	.024	.013	.013	.008	.004	
10.0	.110	.063	.032	.095	.055	.028	.066	.039	.020	.039	.023	.012	.012	.008	.004	

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 Temperature:25.3DEG
 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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	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	17.8	19.0	18.1	19.2	19.4	17.4	18.5	17.6	18.7	18.9
3H	17.7	18.7	18.0	18.9	19.2	17.2	18.2	17.5	18.4	18.7
4H	17.6	18.6	17.9	18.8	19.1	17.1	18.1	17.4	18.3	18.6
6H	17.5	18.4	17.8	18.7	18.9	17.0	17.9	17.3	18.2	18.5
8H	17.5	18.3	17.8	18.6	18.9	17.0	17.8	17.3	18.1	18.4
12H	17.4	18.2	17.8	18.5	18.8	16.9	17.8	17.3	18.0	18.3
4H 2H	17.6	18.6	17.9	18.8	19.1	17.2	18.1	17.5	18.4	18.6
3H	17.5	18.3	17.8	18.6	18.9	17.0	17.8	17.4	18.1	18.4
4H	17.4	18.1	17.8	18.5	18.8	16.9	17.7	17.3	18.0	18.3
6H	17.3	18.0	17.7	18.3	18.7	16.8	17.5	17.2	17.9	18.2
8H	17.3	17.9	17.7	18.2	18.6	16.8	17.4	17.2	17.8	18.2
12H	17.2	17.8	17.6	18.2	18.6	16.8	17.3	17.2	17.7	18.1
8H 4H	17.3	17.9	17.7	18.2	18.6	16.8	17.4	17.2	17.8	18.2
6H	17.2	17.7	17.6	18.1	18.5	16.7	17.2	17.2	17.6	18.1
8H	17.1	17.6	17.6	18.0	18.5	16.7	17.1	17.1	17.5	18.0
12H	17.1	17.5	17.6	17.9	18.4	16.6	17.0	17.1	17.5	17.9
12H 4H	17.2	17.8	17.6	18.1	18.6	16.7	17.3	17.2	17.7	18.1
6H	17.1	17.6	17.6	18.0	18.4	16.7	17.1	17.1	17.5	18.0
8H	17.1	17.4	17.6	17.9	18.4	16.6	17.0	17.1	17.4	17.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 6.0					+ 2.3 / - 7.1				
1.5H	+ 0.9 / - 2.7					+ 1.0 / - 3.4				
2.0H	+ 4.1 / -11.6					+ 4.4 / -11.2				

CIE Pub.117 Corrected 3104 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	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	74	65	60	73	65	60	72	65	60	55
0.80	84	75	70	83	75	70	81	74	70	65
1.00	91	83	78	90	83	78	88	83	77	72
1.25	96	90	85	95	89	85	93	88	84	78
1.50	100	94	89	99	93	89	96	91	88	82
2.00	105	99	95	103	98	94	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	88
3.00	109	105	101	107	103	100	103	100	98	90
4.00	111	108	105	109	106	103	105	103	100	93
5.00	113	110	107	110	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

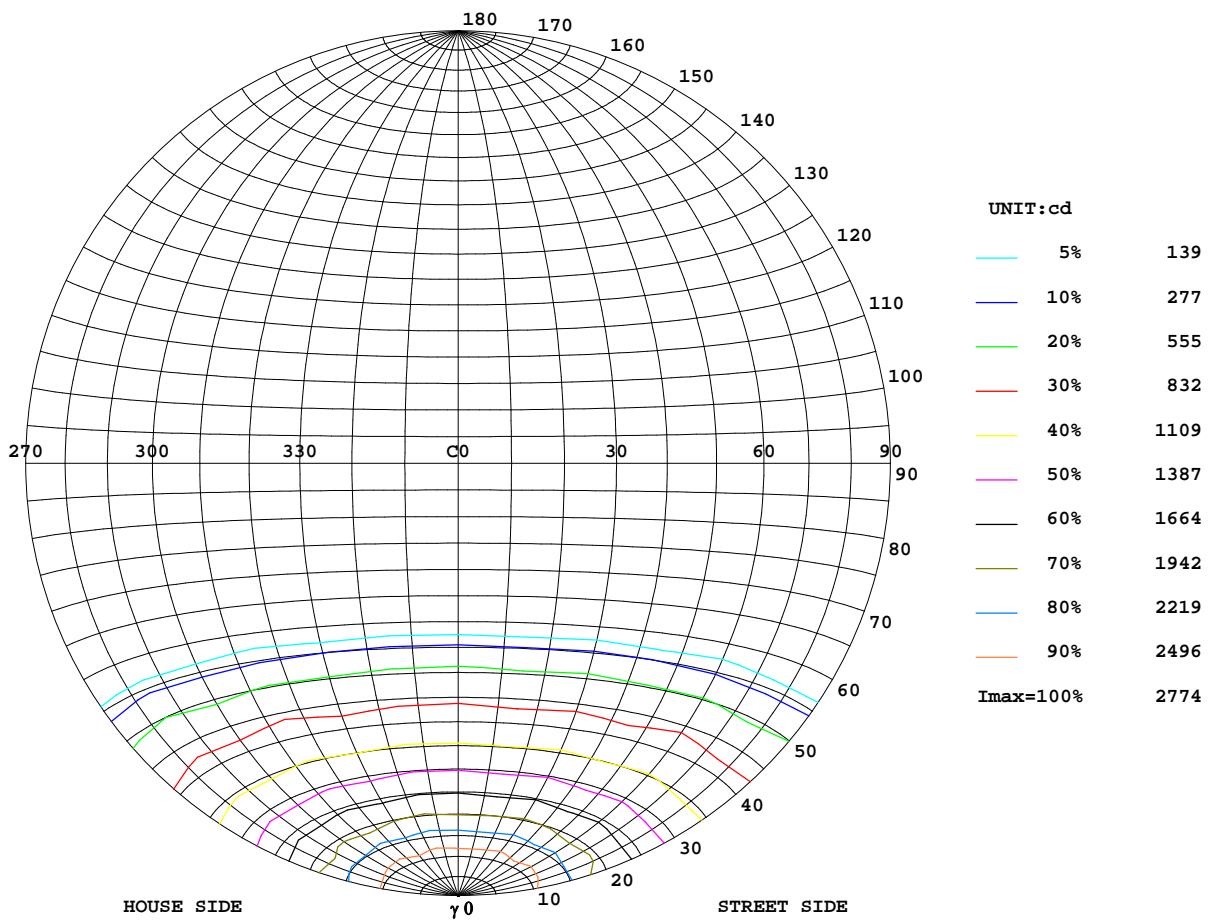
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

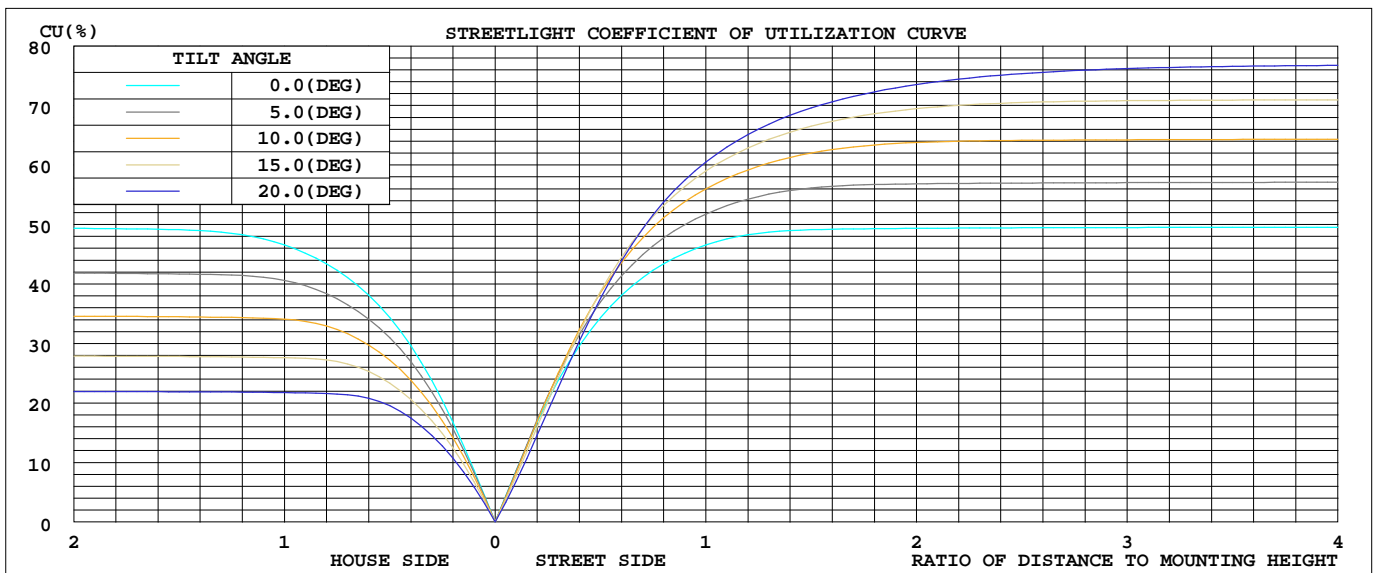
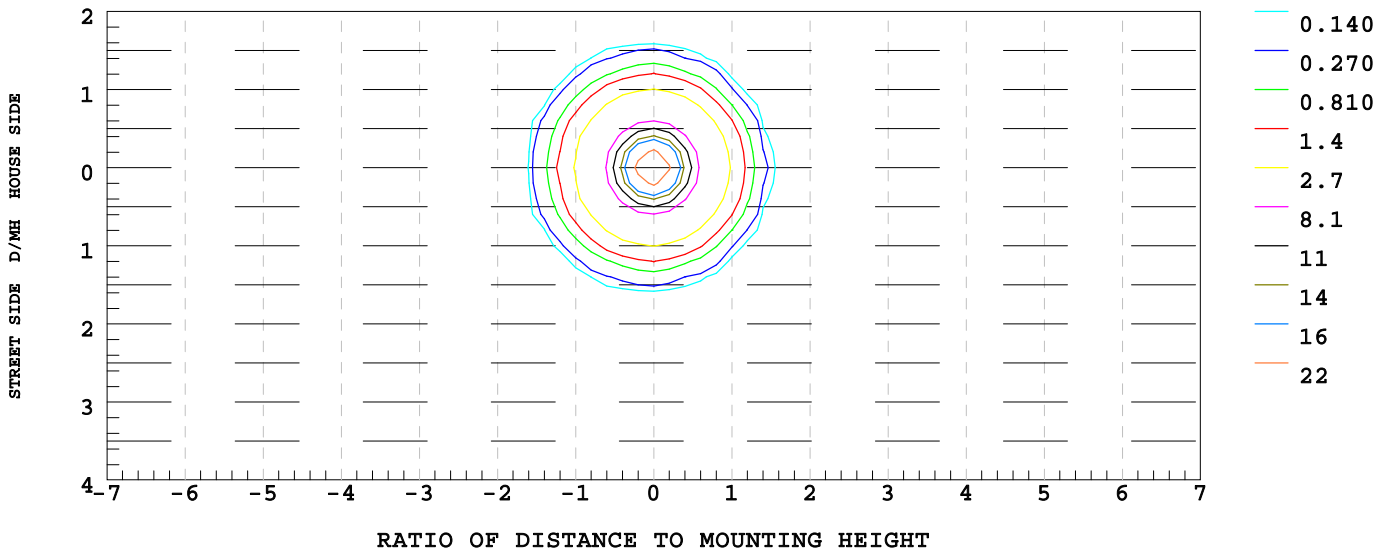
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOLUX DIAGRAM

Report number: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

ILLUMINANCE AT MH=10 m,Enadir = 27.06 lx



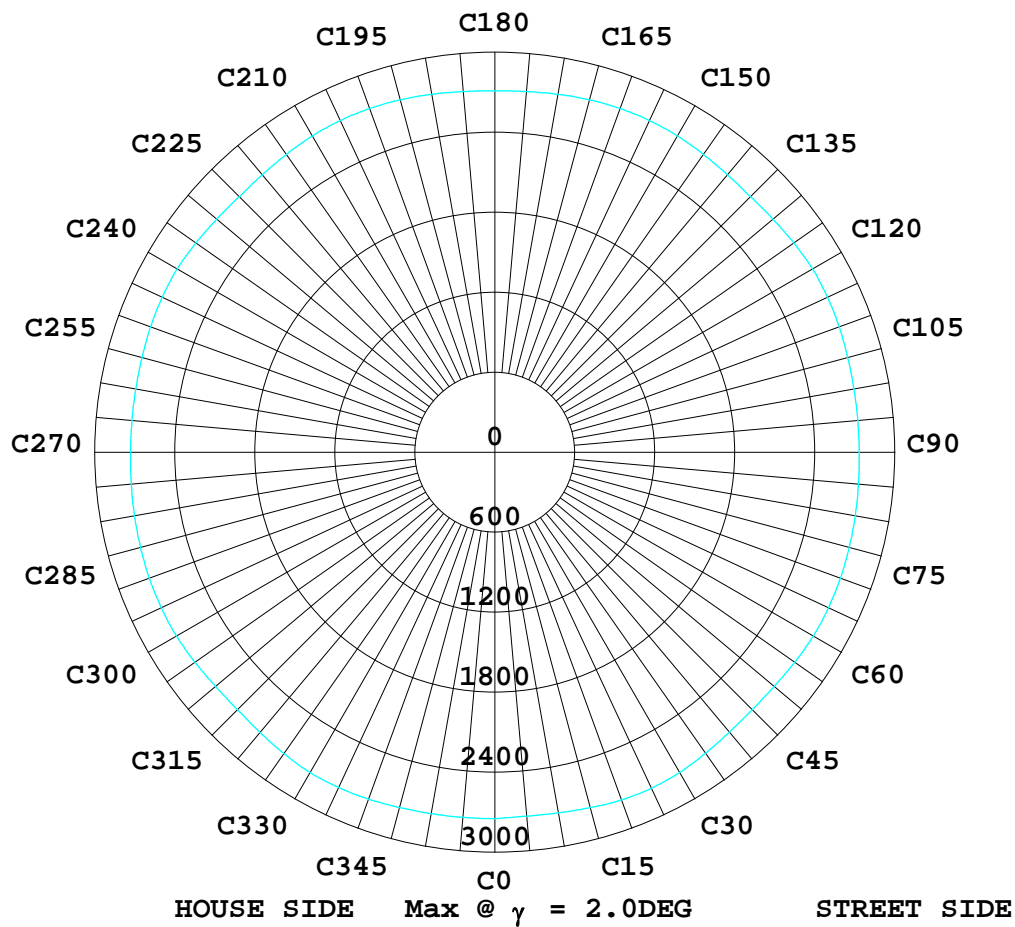
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: cd

γ (DEG)	C(DEG)														
	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	2706	2729	2740	2707	2732	2737	2722	2743	2752	2718	2746	2748	2717	2748	2746
5.0	2714	2726	2741	2692	2722	2711	2681	2689	2693	2641	2677	2667	2646	2667	2677
10.0	2582	2585	2604	2547	2576	2556	2525	2518	2522	2460	2498	2485	2468	2485	2498
15.0	2311	2285	2328	2264	2305	2233	2241	2194	2221	2143	2182	2124	2149	2124	2182
20.0	1916	1938	1965	1923	1895	1890	1894	1860	1866	1808	1821	1786	1807	1786	1821
25.0	1642	1619	1647	1600	1612	1578	1580	1541	1551	1497	1511	1476	1489	1476	1511
30.0	1375	1348	1374	1324	1351	1312	1323	1272	1289	1240	1259	1219	1240	1219	1259
35.0	1133	1119	1135	1104	1123	1080	1081	1040	1064	1019	1033	1009	1026	1009	1033
40.0	932	919	937	908	931	901	898	863	878	838	851	835	851	835	851
45.0	803	780	796	768	798	747	776	721	739	696	724	694	714	694	724
50.0	620	588	603	579	572	510	552	491	505	457	487	444	467	444	487
55.0	304	288	296	275	249	216	220	173	196	139	168	121	154	121	168
60.0	58.7	41.6	58.2	39.0	58.2	40.0	46.2	33.5	44.7	30.1	40.9	28.6	39.7	28.6	40.9
65.0	30.3	21.7	31.7	21.4	32.4	22.2	28.4	20.6	28.6	19.9	27.4	19.4	26.4	19.4	27.4
70.0	23.2	16.2	24.4	16.2	23.9	15.7	22.2	15.4	22.1	13.9	20.6	13.2	19.4	13.2	20.6
75.0	13.0	6.60	13.4	5.90	12.7	5.30	11.1	4.80	10.5	3.80	9.90	3.90	9.09	3.90	9.90
80.0	7.40	2.70	7.80	2.30	7.60	2.50	7.00	2.40	7.10	1.90	6.90	2.20	6.50	2.20	6.90
85.0	5.50	1.40	5.80	1.10	5.70	1.40	5.20	1.30	5.40	0.80	5.30	1.00	4.80	1.00	5.30
90.0	4.30	0.70	4.60	0.30	4.50	0.70	4.10	0.50	4.30	0.20	4.20	0.50	3.80	0.50	4.20
95.0	3.70	0.50	4.00	0.20	3.90	0.50	3.50	0.50	3.80	0.20	3.80	0.50	3.50	0.50	3.80
100.0	3.30	0.60	3.70	0.20	3.60	0.60	3.30	0.60	3.60	0.20	3.50	0.60	3.20	0.60	3.50
105.0	3.20	0.70	3.40	0.40	3.40	0.70	3.10	0.70	3.40	0.40	3.30	0.70	3.00	0.70	3.30
110.0	3.10	0.90	3.40	0.50	3.40	1.00	3.10	0.90	3.40	0.70	3.40	1.00	3.10	1.00	3.40
115.0	3.30	1.30	3.60	1.00	3.60	1.40	3.30	1.40	3.60	1.10	3.60	1.60	3.40	1.60	3.60
120.0	3.60	2.00	3.90	1.60	3.90	2.00	3.70	2.00	4.10	1.80	4.00	2.20	3.80	2.20	4.00
125.0	4.10	2.60	4.50	2.30	4.40	2.70	4.20	2.70	4.60	2.50	4.60	2.90	4.30	2.90	4.60
130.0	4.70	3.30	4.90	2.90	5.00	3.40	4.70	3.40	5.10	3.10	5.20	3.50	4.90	3.50	5.20
135.0	5.30	4.00	5.50	3.70	5.60	4.10	5.40	4.20	5.60	3.90	5.70	4.40	5.50	4.40	5.70
140.0	6.00	4.90	6.30	4.50	6.30	4.90	6.10	5.10	6.40	4.80	6.50	5.20	6.20	5.20	6.50
145.0	6.80	5.80	7.10	5.50	7.10	6.00	6.90	6.10	7.30	5.80	7.30	6.30	7.10	6.30	7.30
150.0	7.70	6.90	8.00	6.50	8.00	7.10	7.90	7.10	8.20	6.80	8.29	7.40	8.10	7.40	8.29
155.0	8.70	7.90	8.90	7.60	9.00	8.20	8.80	8.10	9.20	7.90	9.30	8.40	9.00	8.40	9.30
160.0	9.60	8.90	9.80	8.50	9.90	9.09	9.70	9.00	10.1	8.80	10.1	9.40	9.90	9.40	10.1
165.0	10.4	9.70	10.5	9.30	10.5	10.0	10.4	9.80	10.7	9.50	10.8	10.1	10.5	10.1	10.8
170.0	11.0	10.4	11.2	10.0	11.2	10.5	11.1	10.4	11.2	10.1	11.3	10.7	11.1	10.7	11.3
175.0	11.5	10.8	11.5	10.4	11.5	10.9	11.5	10.8	11.5	10.5	11.5	10.9	11.5	10.9	11.5
180.0	11.7	11.2	11.7	10.8	11.5	11.2	11.5	11.2	11.5	10.8	11.5	11.2	11.5	11.2	11.5

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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: 04032019

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI,P.12,Q.10,TP.HCM	
NAME: DEN AM TRAN 30W	TYPE:DL-RW30C	WEIGHT:1.KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: cd

γ (DEG)	C(DEG)									
	225	240	255	270	285	300	315	330	345	
0.0	2718	2752	2743	2722	2737	2732	2707	2740	2729	
5.0	2641	2693	2689	2681	2711	2722	2692	2741	2726	
10.0	2460	2522	2518	2525	2556	2576	2547	2604	2585	
15.0	2143	2221	2194	2241	2233	2305	2264	2328	2285	
20.0	1808	1866	1860	1894	1890	1895	1923	1965	1938	
25.0	1497	1551	1541	1580	1578	1612	1600	1647	1619	
30.0	1240	1289	1272	1323	1312	1351	1324	1374	1348	
35.0	1019	1064	1040	1081	1080	1123	1104	1135	1119	
40.0	838	878	863	898	901	931	908	937	919	
45.0	696	739	721	776	747	798	768	796	780	
50.0	457	505	491	552	510	572	579	603	588	
55.0	139	196	173	220	216	249	275	296	288	
60.0	30.1	44.7	33.5	46.2	40.0	58.2	39.0	58.2	41.6	
65.0	19.9	28.6	20.6	28.4	22.2	32.4	21.4	31.7	21.7	
70.0	13.9	22.1	15.4	22.2	15.7	23.9	16.2	24.4	16.2	
75.0	3.80	10.5	4.80	11.1	5.30	12.7	5.90	13.4	6.60	
80.0	1.90	7.10	2.40	7.00	2.50	7.60	2.30	7.80	2.70	
85.0	0.80	5.40	1.30	5.20	1.40	5.70	1.10	5.80	1.40	
90.0	0.20	4.30	0.50	4.10	0.70	4.50	0.30	4.60	0.70	
95.0	0.20	3.80	0.50	3.50	0.50	3.90	0.20	4.00	0.50	
100.0	0.20	3.60	0.60	3.30	0.60	3.60	0.20	3.70	0.60	
105.0	0.40	3.40	0.70	3.10	0.70	3.40	0.40	3.40	0.70	
110.0	0.70	3.40	0.90	3.10	1.00	3.40	0.50	3.40	0.90	
115.0	1.10	3.60	1.40	3.30	1.40	3.60	1.00	3.60	1.30	
120.0	1.80	4.10	2.00	3.70	2.00	3.90	1.60	3.90	2.00	
125.0	2.50	4.60	2.70	4.20	2.70	4.40	2.30	4.50	2.60	
130.0	3.10	5.10	3.40	4.70	3.40	5.00	2.90	4.90	3.30	
135.0	3.90	5.60	4.20	5.40	4.10	5.60	3.70	5.50	4.00	
140.0	4.80	6.40	5.10	6.10	4.90	6.30	4.50	6.30	4.90	
145.0	5.80	7.30	6.10	6.90	6.00	7.10	5.50	7.10	5.80	
150.0	6.80	8.20	7.10	7.90	7.10	8.00	6.50	8.00	6.90	
155.0	7.90	9.20	8.10	8.80	8.20	9.00	7.60	8.90	7.90	
160.0	8.80	10.1	9.00	9.70	9.09	9.90	8.50	9.80	8.90	
165.0	9.50	10.7	9.80	10.4	10.0	10.5	9.30	10.5	9.70	
170.0	10.1	11.2	10.4	11.1	10.5	11.2	10.0	11.2	10.4	
175.0	10.5	11.5	10.8	11.5	10.9	11.5	10.4	11.5	10.8	
180.0	10.8	11.5	11.2	11.5	11.2	11.5	10.8	11.7	11.2	

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:03-04-2019

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