

LAMP PHOTOMETRIC REPORT

MODEL: TR-GW40N

POWER: 40W

VOLTAGE: 220V

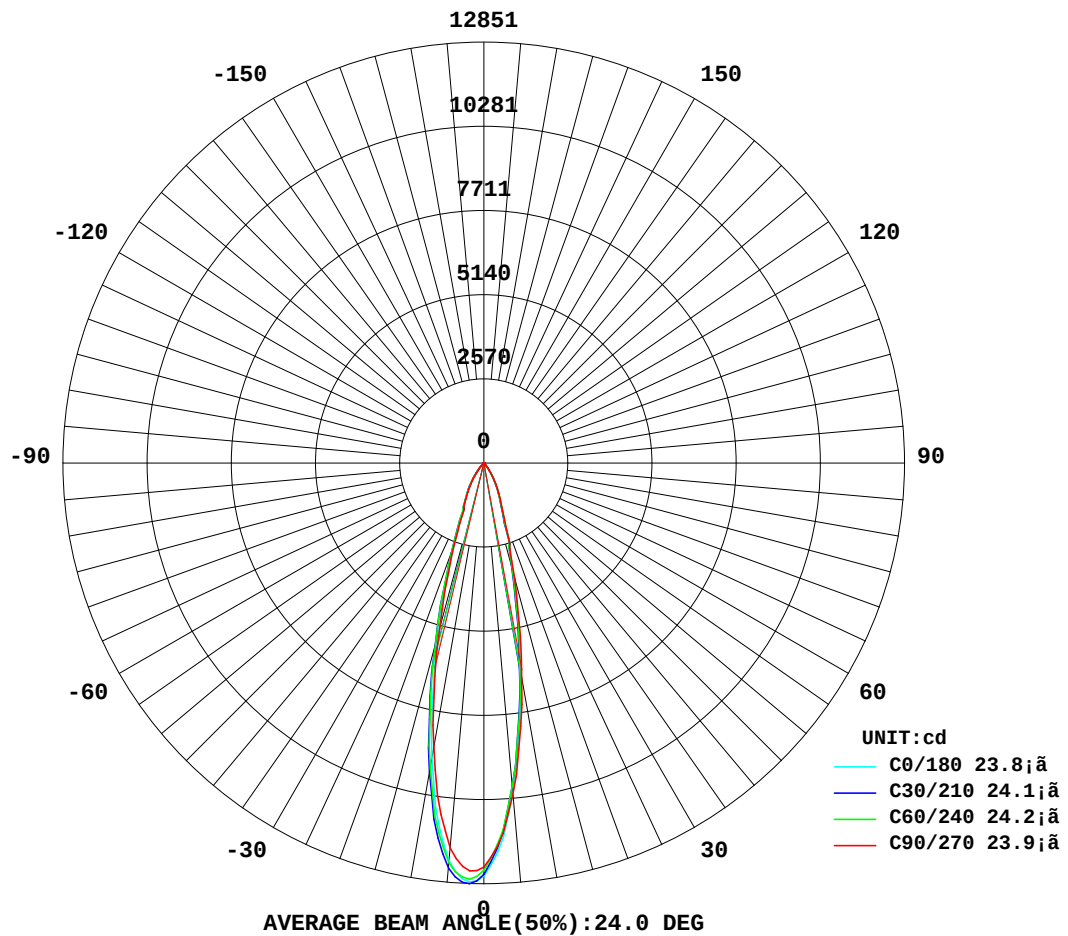
WORKING VOLTAGE: 220.2V

MANUFACTURER: CONG TY CO PHAN VINALED

TOTAL FLUX: 3162.1 lm

Efficiency: 71.606 lm/W

Test: U: 220.1V I: 0.205A P: 44.16W PF: -0.974



Test System: LSG-1800
 Temperature: 25.3 DEG
 Operators: NGUYEN BA HUNG
 Test Date: 10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	1221	1227	1181	1078	1016	1001	1017	1094	0- 5	279.8	279.8
10.0	915.0	939.3	882.8	737.9	642.7	639.1	666.3	762.7	5- 10	665.2	945.1
15.0	535.6	560.9	523.3	407.4	341.0	345.7	364.5	435.7	10- 15	702.8	1648
20.0	265.4	280.0	266.9	210.8	177.1	156.1	186.9	212.4	15- 20	523.2	2171
25.0	143.3	145.8	143.7	123.5	112.7	113.9	113.4	127.1	20- 25	345.9	2517
30.0	96.90	94.04	92.51	77.69	71.18	72.59	73.15	85.29	25- 30	263.5	2781
35.0	56.89	53.94	52.57	40.06	33.58	35.81	36.54	46.22	30- 35	185.0	2966
40.0	25.46	27.15	23.39	17.07	13.83	14.02	16.26	19.90	35- 40	102.5	3068
45.0	11.38	9.650	8.260	5.200	3.480	5.020	5.410	8.880	40- 45	45.96	3114
50.0	4.080	2.860	2.370	1.320	1.050	1.730	1.150	2.710	45- 50	16.58	3131
55.0	1.530	0.810	1.470	0.850	0.870	1.450	0.840	1.510	50- 55	5.867	3137
60.0	1.290	0.710	1.190	0.690	0.770	1.270	0.830	1.330	55- 60	4.478	3141
65.0	1.100	0.660	1.110	0.600	0.650	1.170	0.790	1.170	60- 65	4.087	3145
70.0	0.980	0.560	0.960	0.510	0.620	1.080	0.750	1.140	65- 70	3.827	3149
75.0	0.910	0.520	0.850	0.500	0.620	0.960	0.590	1.000	70- 75	3.529	3153
80.0	0.820	0.540	0.860	0.510	0.620	0.930	0.650	1.000	75- 80	3.266	3156
85.0	0.750	0.510	0.820	0.490	0.610	0.850	0.640	0.900	80- 85	3.155	3159
90.0	0.670	0.570	0.700	0.570	0.800	0.820	0.740	0.810	85- 90	3.162	3162
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY: $\mu A10cd$									UNIT: lm	

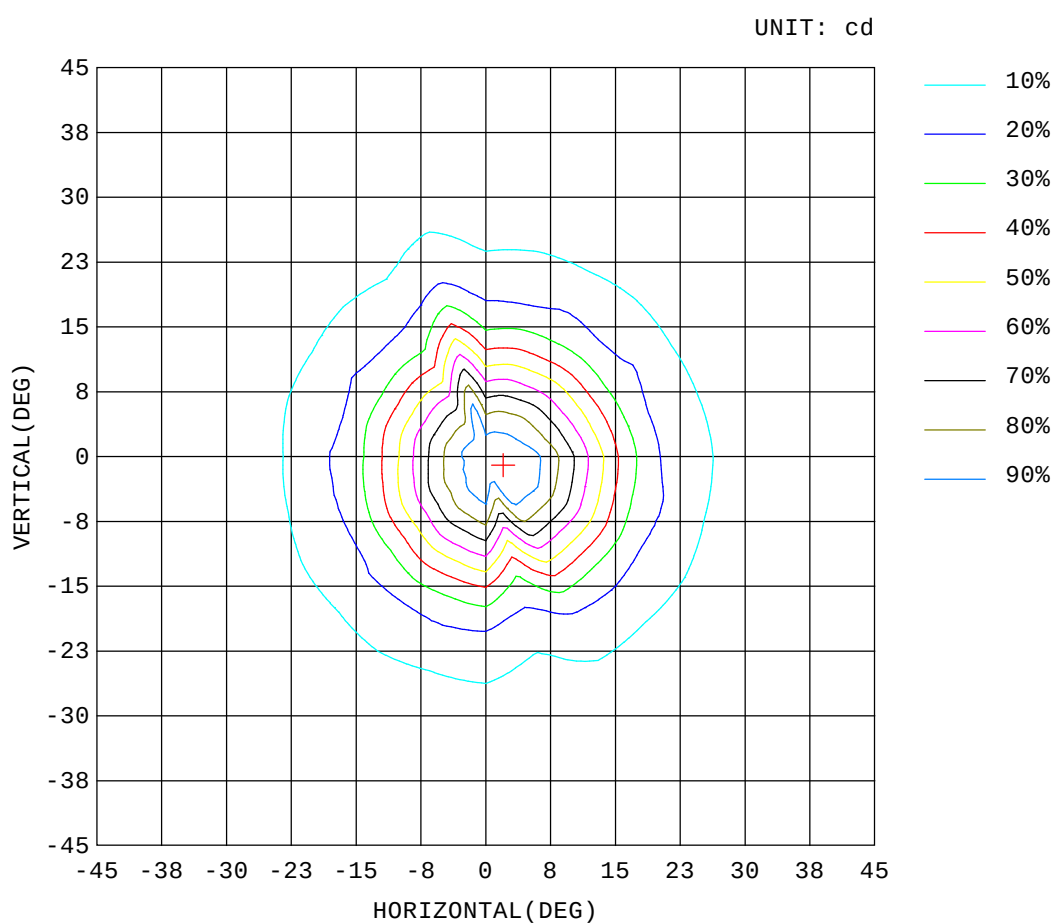
Test System:LSG-1800
Temperature:25.3DEG
Operators:NGUYEN BA HUNG
Test Date:10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



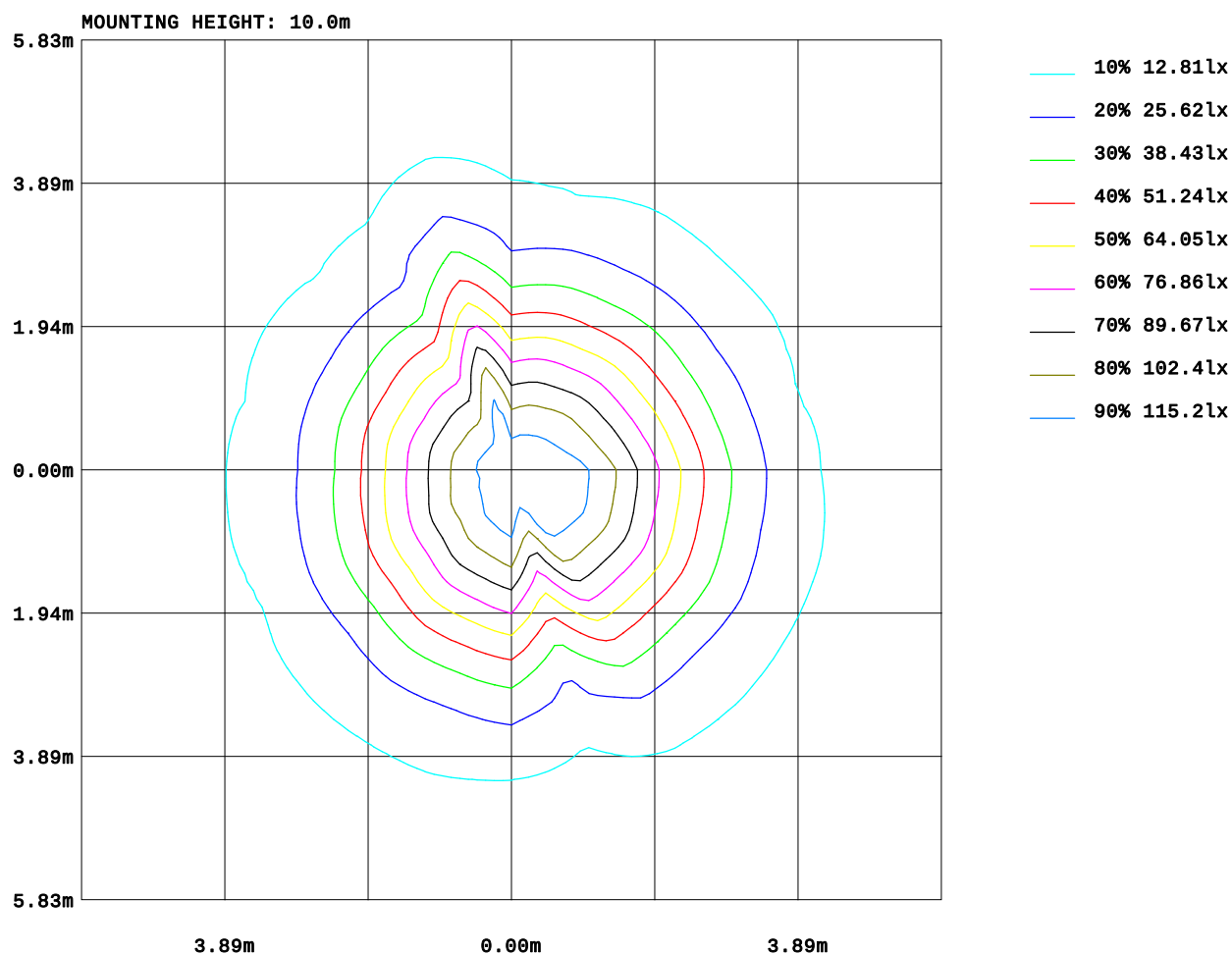
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ISOLUX DIAGRAM

Report number: 16102017

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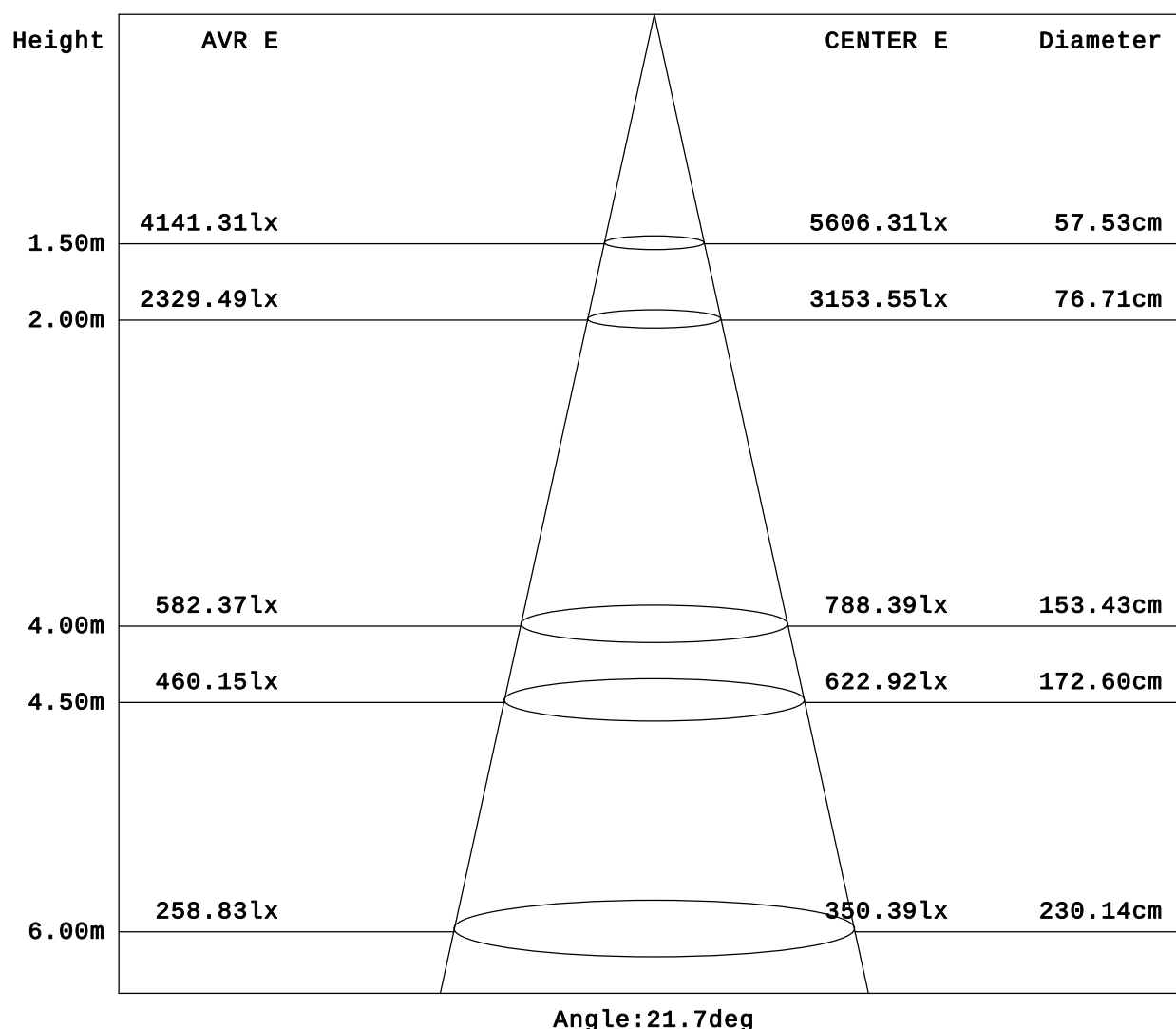
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AVERAGE AND CENTER E Figure

Report number: 16102017

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 Humidity:65.0%
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 Remarks: LED SOURCE:CREE

AREA LUMINOUS FLUX

Report number: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

45	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.06	0.08	0.10	0.11	0.16	0.42	0.85	1.03	0.89	0.79	0.79	0.68	0.47	0.29	0.19	0.13	0.08	0.05	7.16	0.00		
40	0.05	0.08	0.16	0.31	0.55	1.01	1.90	2.52	2.23	2.01	1.90	1.61	1.21	0.79	0.53	0.29	0.12	0.05	17.3	0.00		
35	0.05	0.11	0.34	0.76	1.30	2.09	3.63	5.07	4.57	4.17	4.05	3.34	2.51	1.75	1.03	0.59	0.24	0.07	35.7	0.00		
30	0.07	0.22	0.66	1.41	2.54	3.85	5.80	8.11	7.76	7.16	6.93	5.89	4.58	3.22	1.93	1.00	0.45	0.17	61.8	1.20		
25	0.14	0.44	1.14	2.39	4.24	6.23	8.18	12.1	12.7	10.9	10.2	8.70	7.02	5.14	3.12	1.66	0.77	0.33	95.6	43.1		
20	0.24	0.72	1.77	3.51	5.94	8.63	11.5	20.1	25.7	20.3	17.9	13.2	9.65	6.90	4.49	2.47	1.17	0.51	155	117		
15	0.35	0.99	2.47	4.77	7.51	11.1	18.1	29.7	47.9	39.1	32.7	22.5	13.8	8.66	5.87	3.43	1.61	0.68	252	218		
VERTICAL (DEG)	0.42	1.23	3.03	5.81	9.03	14.8	26.9	44.9	69.3	64.6	54.0	35.3	19.8	10.3	6.97	4.27	2.02	0.83	374	344		
	0.45	1.38	3.28	6.20	9.76	17.6	34.6	59.5	83.3	86.7	73.1	48.6	25.8	12.3	7.74	4.82	2.31	0.94	479	450		
	0.44	1.41	3.28	6.22	9.87	18.4	35.9	62.5	86.1	92.8	80.3	52.8	27.6	13.2	7.86	4.87	2.34	0.97	507	478		
	0.40	1.34	3.05	5.87	9.25	16.1	31.2	52.7	72.9	70.9	67.2	45.0	24.1	12.0	7.30	4.44	2.12	0.89	427	398		
	0.33	1.13	2.61	5.18	8.20	12.4	21.9	36.4	48.9	42.3	43.5	30.0	17.3	9.91	6.54	3.79	1.84	0.71	293	263		
	0.25	0.80	2.06	4.10	6.61	9.45	14.2	21.0	27.0	23.2	21.3	17.7	11.3	7.94	5.42	3.02	1.44	0.55	178	141		
	0.17	0.57	1.35	2.78	4.69	7.05	9.49	11.7	13.7	12.4	10.5	10.3	8.12	5.89	3.84	2.15	1.00	0.42	106	57.8		
	0.12	0.35	0.80	1.67	2.96	4.80	6.48	7.60	8.55	8.03	6.59	6.68	5.70	3.86	2.36	1.34	0.67	0.28	68.9	2.43		
	0.08	0.17	0.41	0.87	1.66	2.73	3.72	4.55	5.26	4.91	3.67	3.61	3.29	2.23	1.40	0.73	0.38	0.16	39.8	0.00		
	0.06	0.08	0.16	0.40	0.78	1.24	1.77	2.24	2.63	2.45	1.75	1.58	1.50	1.11	0.66	0.34	0.16	0.09	19.0	0.00		
-45	0.05	0.06	0.07	0.16	0.33	0.51	0.66	0.86	1.04	0.96	0.65	0.53	0.58	0.48	0.26	0.12	0.07	0.06	7.47	0.00		
-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL(DEG) 10 15 20 25 30 35 40 45																						
Φ t	3.73	11.1	26.7	52.5	85.4	139	237	383	521	494	438	309	185	106	67.5	39.5	18.8	7.76	3162			
Φ a	0.00	0.00	0.00	0.00	26.0	97.4	200	350	489	462	405	276	146	58.4	3.69	0.00	0.00	0.00		2515		

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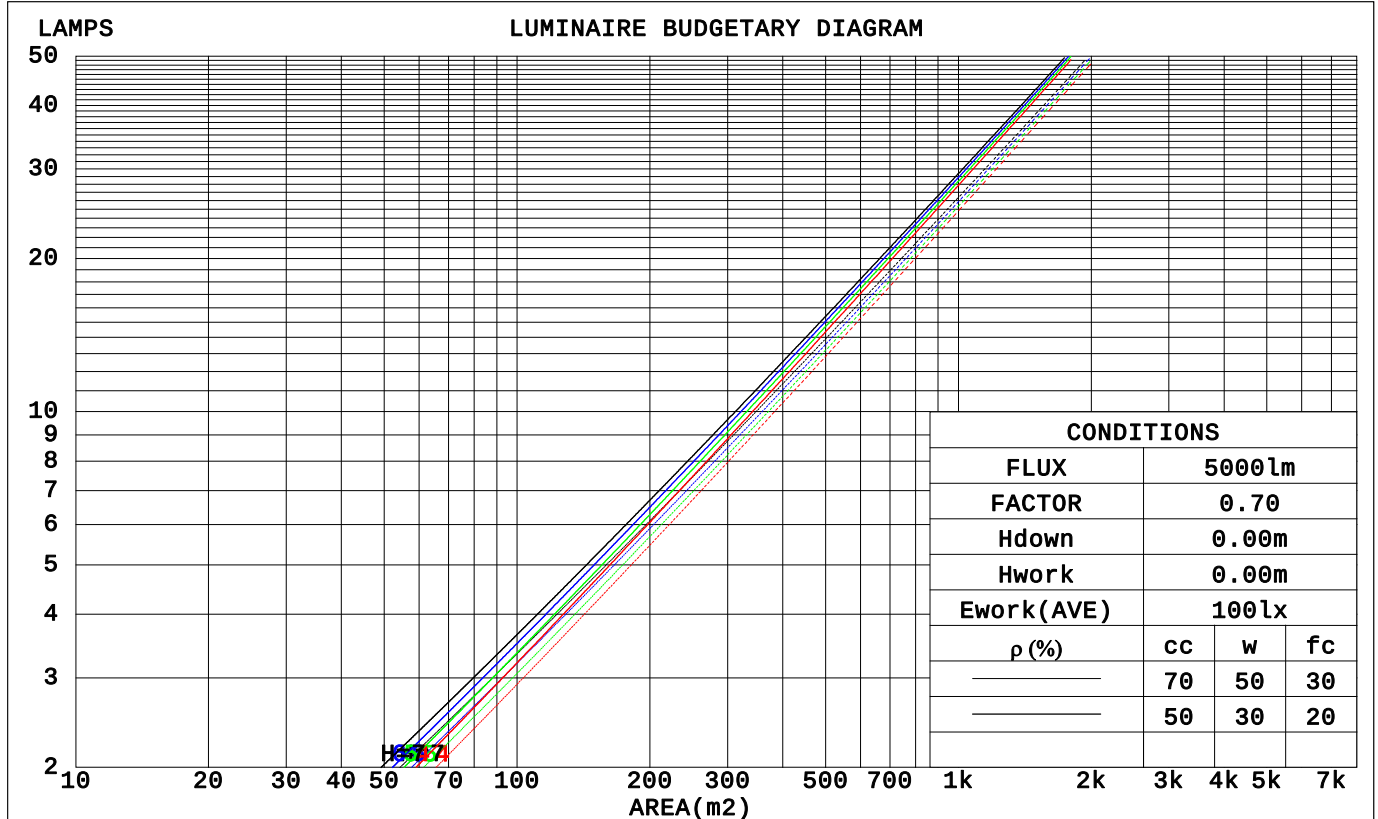
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: LED SOURCE:CREE

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM				
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N		WEIGHT:1.16KG		
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	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.81	.77	.85	.80	.77	.83	.80	.77	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
9.0	.79	.75	.72	.79	.74	.72	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.68



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WEC AND CCEC

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NAME: DEN THANH RAY 40W	TYPE:TR-GW40N			WEIGHT:1.16KG		
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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.119	.069	.022	.109	.063	.020	
2.0	.140	.077	.023	.134	.074	.023	.124	.069	.021	.114	.064	.020	.105	.060	.019	
3.0	.131	.070	.021	.126	.068	.020	.117	.064	.019	.109	.060	.018	.102	.056	.017	
4.0	.123	.064	.019	.119	.062	.018	.112	.059	.018	.105	.056	.017	.098	.054	.016	
5.0	.116	.059	.017	.113	.058	.017	.106	.055	.016	.101	.053	.016	.095	.051	.015	
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.097	.050	.015	.092	.048	.014	
7.0	.105	.052	.015	.102	.051	.015	.097	.049	.014	.093	.048	.014	.089	.046	.014	
8.0	.100	.049	.014	.098	.048	.014	.094	.047	.013	.090	.045	.013	.086	.044	.013	
9.0	.096	.046	.013	.094	.046	.013	.090	.044	.013	.086	.043	.012	.083	.042	.012	
10.0	.092	.044	.012	.090	.043	.012	.087	.042	.012	.083	.041	.012	.080	.040	.012	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.068	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.034	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.053	.035	.056	.038	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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Test Distance:10.000 m
Remarks: LED SOURCE:CREE

Uncorrected UGR Table

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MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM			
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N		WEIGHT:1.16KG	
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	8.1	8.8	8.3	9.0	9.1	6.6	7.3	6.8	7.5	7.7
3H	8.0	8.7	8.2	8.8	9.0	6.5	7.2	6.8	7.4	7.6
4H	7.9	8.6	8.2	8.8	9.0	6.5	7.1	6.8	7.3	7.6
6H	7.9	8.5	8.2	8.8	9.0	6.5	7.1	6.8	7.4	7.6
8H	8.0	8.5	8.3	8.8	9.0	6.6	7.2	6.9	7.4	7.7
12H	8.0	8.6	8.3	8.9	9.1	6.8	7.3	7.1	7.6	7.9
4H 2H	7.9	8.5	8.1	8.7	8.9	6.4	7.1	6.7	7.3	7.5
3H	7.8	8.3	8.1	8.6	8.9	6.3	6.9	6.6	7.1	7.4
4H	7.7	8.3	8.1	8.6	8.9	6.3	6.8	6.6	7.1	7.4
6H	7.7	8.2	8.1	8.5	8.9	6.4	6.8	6.7	7.2	7.5
8H	7.8	8.2	8.2	8.6	8.9	6.5	6.9	6.9	7.2	7.6
12H	7.9	8.3	8.3	8.7	9.1	6.7	7.1	7.1	7.5	7.9
8H 4H	7.6	8.1	8.0	8.4	8.8	6.2	6.6	6.6	7.0	7.4
6H	7.7	8.1	8.1	8.5	8.9	6.3	6.7	6.8	7.1	7.5
8H	7.8	8.1	8.3	8.5	9.0	6.5	6.8	6.9	7.2	7.7
12H	8.0	8.3	8.4	8.7	9.2	6.8	7.1	7.3	7.5	8.0
12H 4H	7.6	8.0	8.0	8.4	8.7	6.2	6.6	6.6	7.0	7.3
6H	7.7	8.0	8.1	8.4	8.9	6.4	6.7	6.8	7.1	7.5
8H	7.8	8.1	8.3	8.6	9.0	6.5	6.8	7.0	7.3	7.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / - 5.1					+ 3.8 / - 4.7				
1.5H	+ 5.6 / - 5.5					+ 6.3 / - 4.8				
2.0H	+ 5.2 / - 2.5					+ 4.6 / - 1.6				

CIE Pub.117 Corrected 3162 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM		
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	91	88	96	91	88	95	91	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

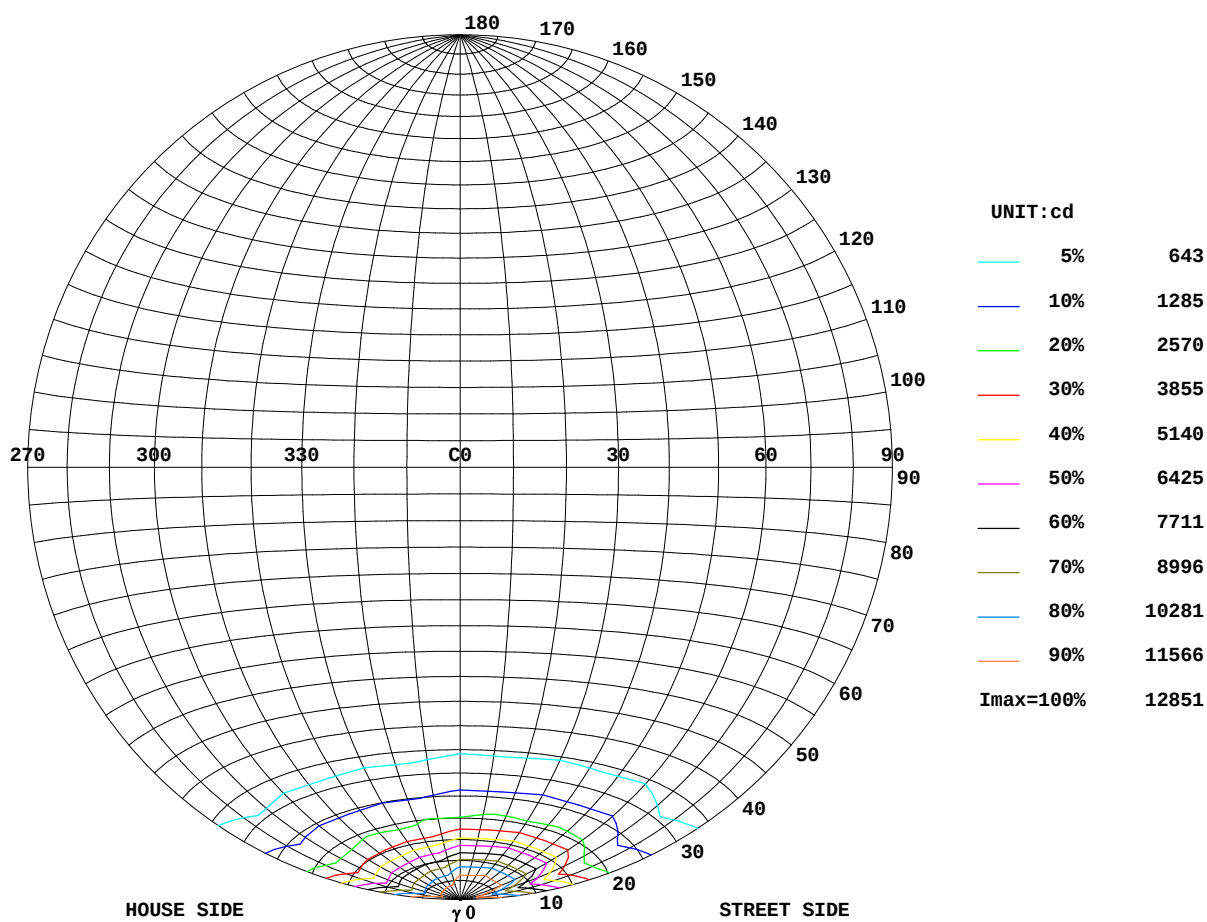
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:10-16-2017

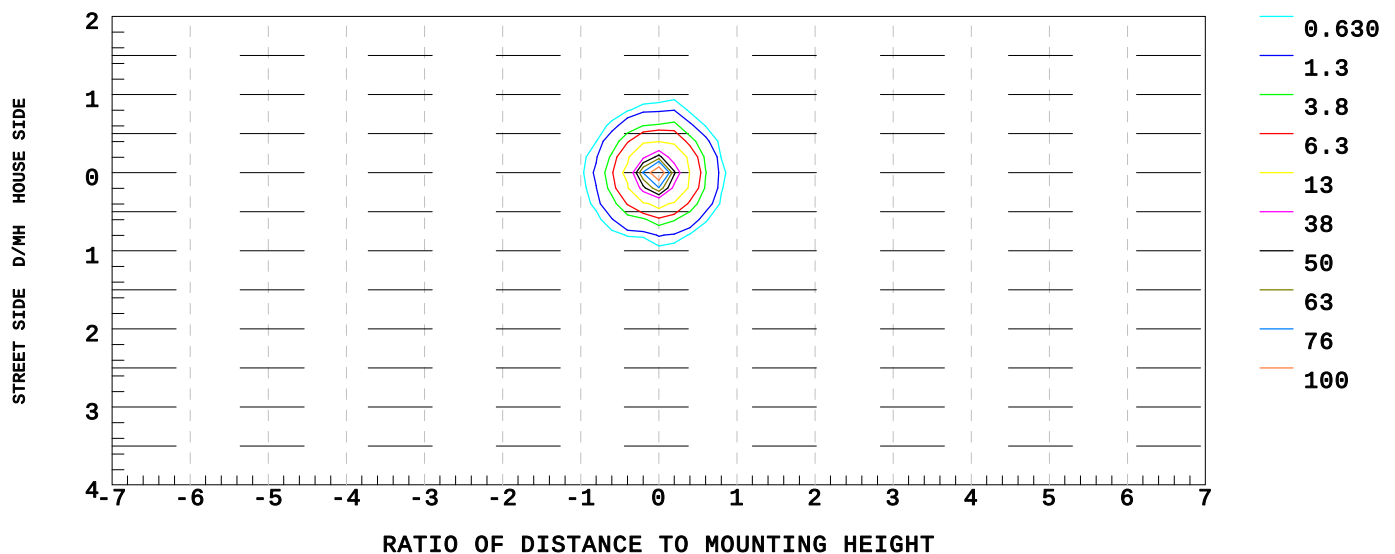
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: LED SOURCE:CREE

ISOLUX DIAGRAM

Report number: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

ILLUMINANCE AT MH=10 m, Enadir = 126.14 lx



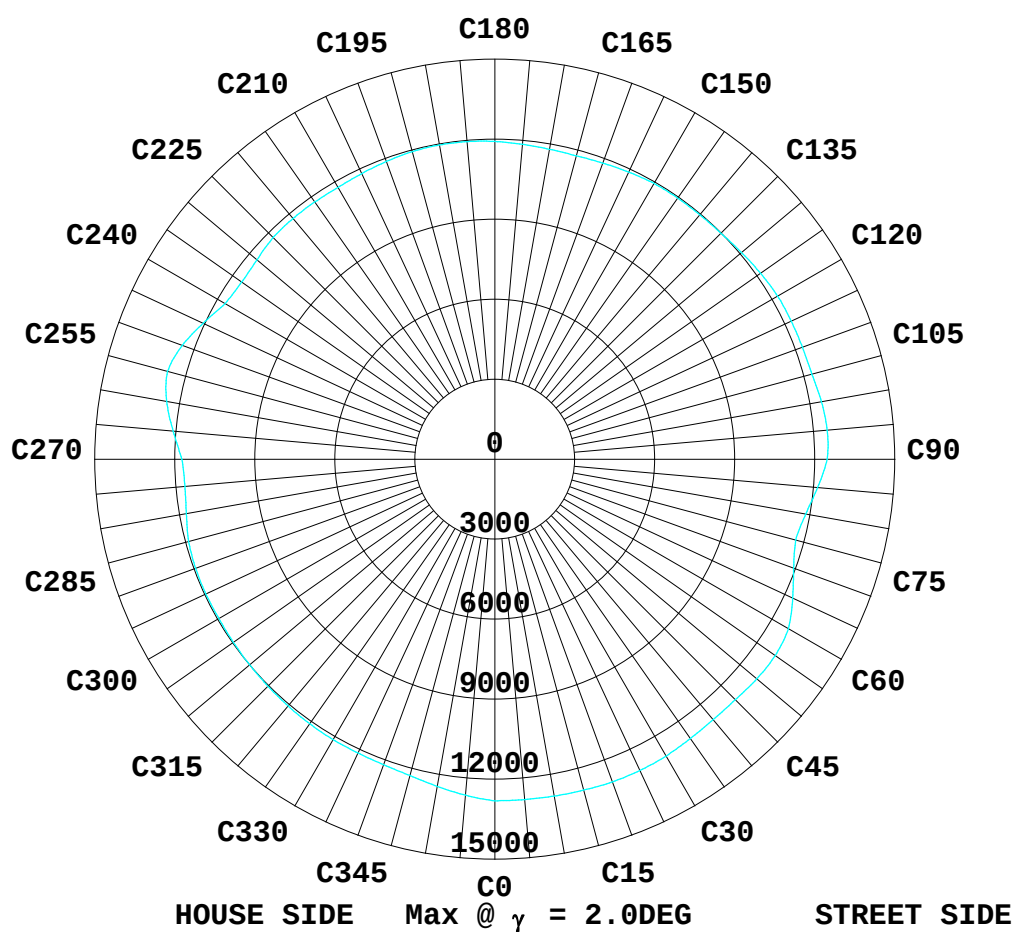
Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479



Test System:LSG-1800
 Temperature:25.3DEG
 Operators:NGUYEN BA HUNG
 Test Date:10-16-2017

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: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: μ Á10cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1261	1265	1256	1251	1243	1243	1234	1235	1232	1224	1227	1225	1261	1265	1256
5.0	1221	1228	1243	1227	1226	994	1181	1146	1127	1078	1065	1029	1016	1017	995
10.0	915	925	957	939	945	635	883	828	803	738	719	673	643	646	626
15.0	536	545	577	561	572	343	523	478	461	407	393	357	341	347	336
20.0	265	277	291	280	291	178	267	263	237	211	200	185	177	156	175
25.0	143	142	148	146	151	111	144	135	135	124	123	116	113	115	110
30.0	96.9	93.7	98.5	94.0	98.0	70.2	92.5	86.2	87.4	77.6	79.3	73.3	71.1	73.8	68.1
35.0	56.8	54.7	58.2	53.9	57.1	33.7	52.5	46.6	47.5	40.0	41.2	36.2	33.5	35.8	33.0
40.0	25.4	27.6	27.2	27.1	25.8	14.1	23.3	20.1	20.2	17.0	13.7	14.4	13.8	13.3	13.4
45.0	11.3	9.57	11.8	9.65	10.7	3.70	8.26	5.98	7.81	5.20	5.71	3.79	3.48	4.45	3.37
50.0	4.08	2.86	4.33	2.86	3.12	0.71	2.37	1.12	2.21	1.32	1.77	1.06	1.05	1.51	0.92
55.0	1.53	0.62	1.57	0.81	1.27	0.55	1.47	0.63	1.44	0.85	1.20	0.79	0.87	1.16	0.78
60.0	1.29	0.51	1.32	0.71	1.06	0.52	1.19	0.49	1.22	0.69	0.98	0.67	0.77	0.99	0.69
65.0	1.10	0.42	1.18	0.66	0.86	0.44	1.11	0.41	1.03	0.60	0.83	0.59	0.65	0.84	0.61
70.0	0.98	0.35	0.99	0.56	0.72	0.43	0.96	0.34	0.88	0.51	0.71	0.57	0.62	0.77	0.62
75.0	0.91	0.33	0.87	0.52	0.64	0.33	0.85	0.29	0.78	0.50	0.62	0.53	0.62	0.68	0.51
80.0	0.82	0.25	0.83	0.54	0.56	0.28	0.86	0.29	0.80	0.51	0.58	0.48	0.62	0.62	0.50
85.0	0.75	0.27	0.79	0.51	0.54	0.30	0.82	0.30	0.72	0.49	0.54	0.53	0.61	0.58	0.57
90.0	0.67	0.30	0.68	0.57	0.48	0.34	0.70	0.31	0.68	0.57	0.47	0.53	0.80	0.53	0.56

Test System:LSG-1800
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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

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number: 16102017

MANUFACTURER: CONG TY CO PHAN VINALED	Address:152/24 THANH THAI , P.12,Q.10,TP.HCM	
NAME: DEN THANH RAY 40W	TYPE:TR-GW40N	WEIGHT:1.16KG
SPECIFICATION:AC220-240V	DIMENSION: 10M	SERIAL No.:1705479

UNIT: μ Á10cd

γ (DEG) \ C (DEG)	225	240	255	270	285	300	315	330	345
0.0	1251	1243	1243	1234	1235	1232	1224	1227	1225
5.0	1001	994	1226	1017	1051	1066	1094	1114	1149
10.0	639	635	945	666	709	723	763	784	834
15.0	346	343	572	365	397	406	436	448	488
20.0	156	178	291	187	199	201	212	261	237
25.0	114	111	151	113	121	121	127	126	133
30.0	72.5	70.2	98.0	73.1	80.8	79.8	85.2	84.0	90.8
35.0	35.8	33.7	57.1	36.5	42.1	41.1	46.2	45.1	51.2
40.0	14.0	14.1	25.8	16.2	17.6	18.3	19.9	20.4	22.8
45.0	5.02	3.70	10.7	5.41	7.32	6.50	8.88	7.62	10.1
50.0	1.73	0.71	3.12	1.15	1.89	1.36	2.71	1.75	3.35
55.0	1.45	0.55	1.27	0.84	1.21	0.78	1.51	0.60	1.43
60.0	1.27	0.52	1.06	0.83	1.01	0.70	1.33	0.52	1.29
65.0	1.17	0.44	0.86	0.79	0.94	0.66	1.17	0.50	1.08
70.0	1.08	0.43	0.72	0.75	0.91	0.64	1.14	0.44	1.07
75.0	0.96	0.33	0.64	0.59	0.74	0.55	1.00	0.37	0.96
80.0	0.93	0.28	0.56	0.65	0.64	0.56	1.00	0.33	0.86
85.0	0.85	0.30	0.54	0.64	0.61	0.56	0.90	0.34	0.83
90.0	0.82	0.34	0.48	0.74	0.57	0.60	0.81	0.39	0.77

Test System:LSG-1800
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Test Set: 8.0deg/s C-Gamma (TYPE C)
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