

LUMINAIRE PHOTOMETRIC TEST REPORT

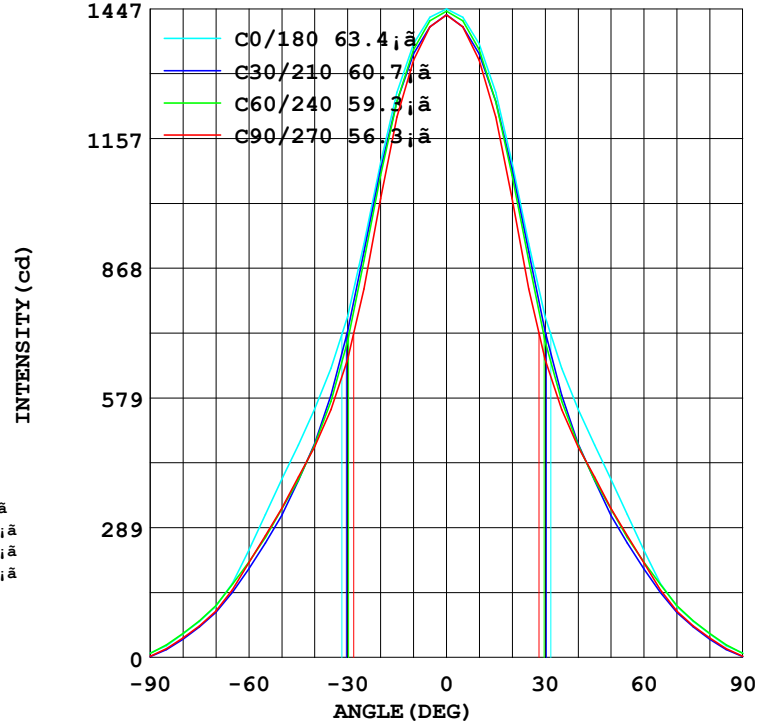
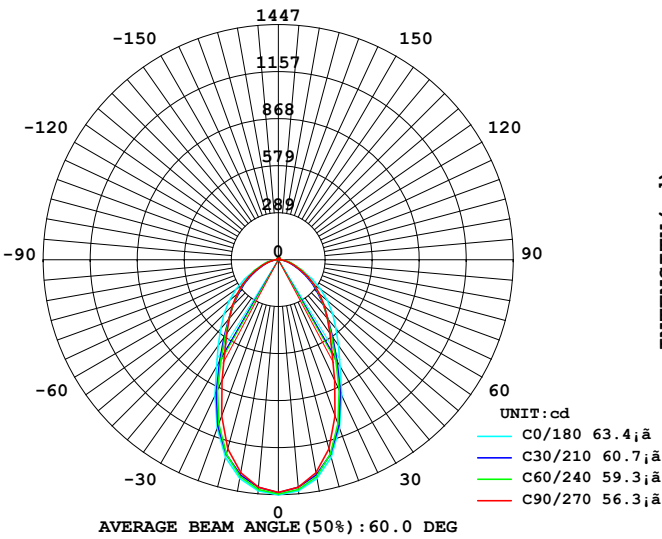
Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

DATA OF LAMP		Imax (cd)	1447	S/MH (C0/180)	0.90
MODEL	1022-1-2-1-2	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.84
NOMINAL POWER (W)	20	TOTAL FLUX (lm)	2132.7	Voltage (V)	219.1
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	105.8	Current (A)	0.091
NOMINAL FLUX (lm)	2132.7	η up (%)	2.4	Power (W)	20.15
LAMPS QUANTITY	1	η down (%)	97.6	Power Factor (PF)	0.993
TEST VOLTAGE (V)	219.1	Effective Flux (lm)	1907.1	E EI	0.144

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

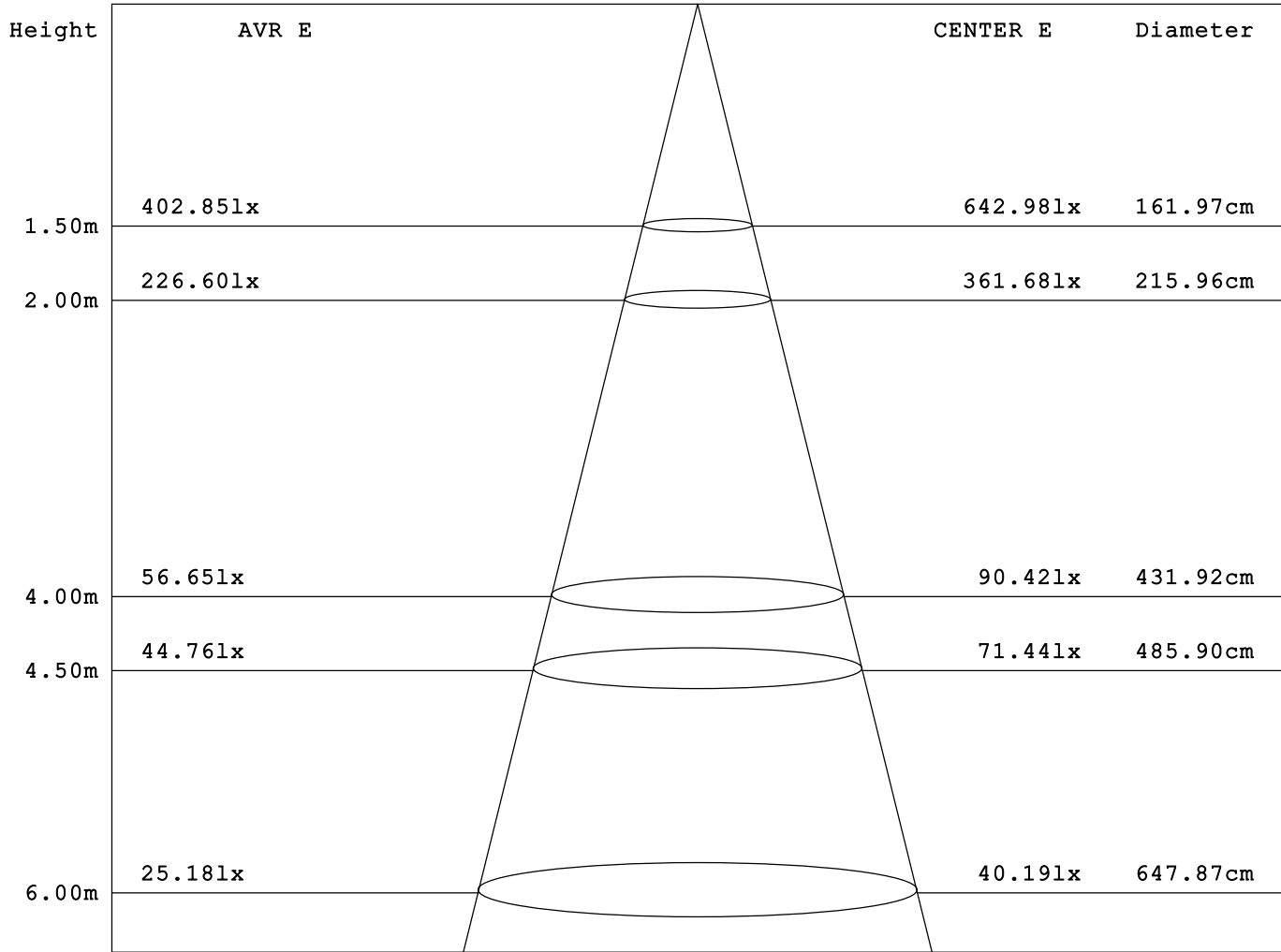
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Temperature:25.3DEG
Operators:
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AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:



Angle:56.7deg

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

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 Humidity:65.0%
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ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1368	1351	1332	1351	1368	1351	1332	1351	0- 10	133.0	133.0
20.0	1103	1082	1023	1082	1103	1082	1023	1082	10- 20	344.1	477.2
30.0	760.5	716.6	665.1	716.6	760.5	716.6	665.1	716.6	20- 30	408.6	885.8
40.0	554.1	475.6	470.0	475.6	554.1	475.6	470.0	475.6	30- 40	370.4	1256
50.0	397.2	323.7	332.5	323.7	397.2	323.7	332.5	323.7	40- 50	316.9	1573
60.0	238.8	205.0	211.0	205.0	238.8	205.0	211.0	205.0	50- 60	244.5	1818
70.0	113.8	107.8	103.0	107.8	113.8	107.8	103.0	107.8	60- 70	155.9	1974
80.0	52.16	46.79	42.95	46.79	52.16	46.79	42.95	46.79	70- 80	80.48	2054
90.0	9.566	5.595	2.166	5.595	9.566	5.595	2.166	5.595	80- 90	26.83	2081
100.0	8.393	5.369	2.797	5.369	8.393	5.369	2.797	5.369	90-100	6.006	2087
110.0	8.483	5.956	3.880	5.956	8.483	5.956	3.880	5.956	100-110	6.017	2093
120.0	9.205	7.039	5.415	7.039	9.205	7.039	5.415	7.039	110-120	6.500	2100
130.0	10.28	8.618	7.400	8.618	10.28	8.618	7.400	8.618	120-130	7.080	2107
140.0	11.73	10.33	9.476	10.33	11.73	10.33	9.476	10.33	130-140	7.385	2114
150.0	13.26	12.09	11.55	12.09	13.26	12.09	11.55	12.09	140-150	7.097	2121
160.0	14.53	13.67	13.08	13.67	14.53	13.67	13.08	13.67	150-160	5.986	2127
170.0	15.70	14.84	14.25	14.84	15.70	14.84	14.25	14.84	160-170	4.047	2131
180.0	16.24	15.47	15.16	15.47	16.24	15.47	15.16	15.47	170-180	1.450	2133
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

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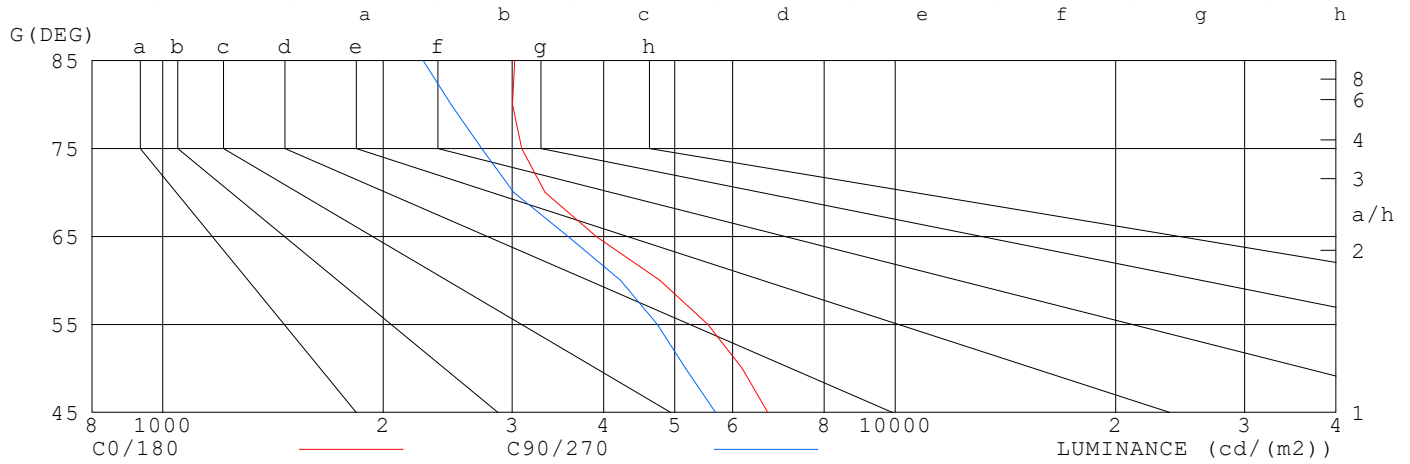
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2

G (DEG)	C0/180	C90/270
85	3024	2268
80	3004	2474
75	3093	2727
70	3327	3013
65	3910	3577
60	4776	4220
55	5554	4738
50	6181	5174
45	6702	5689

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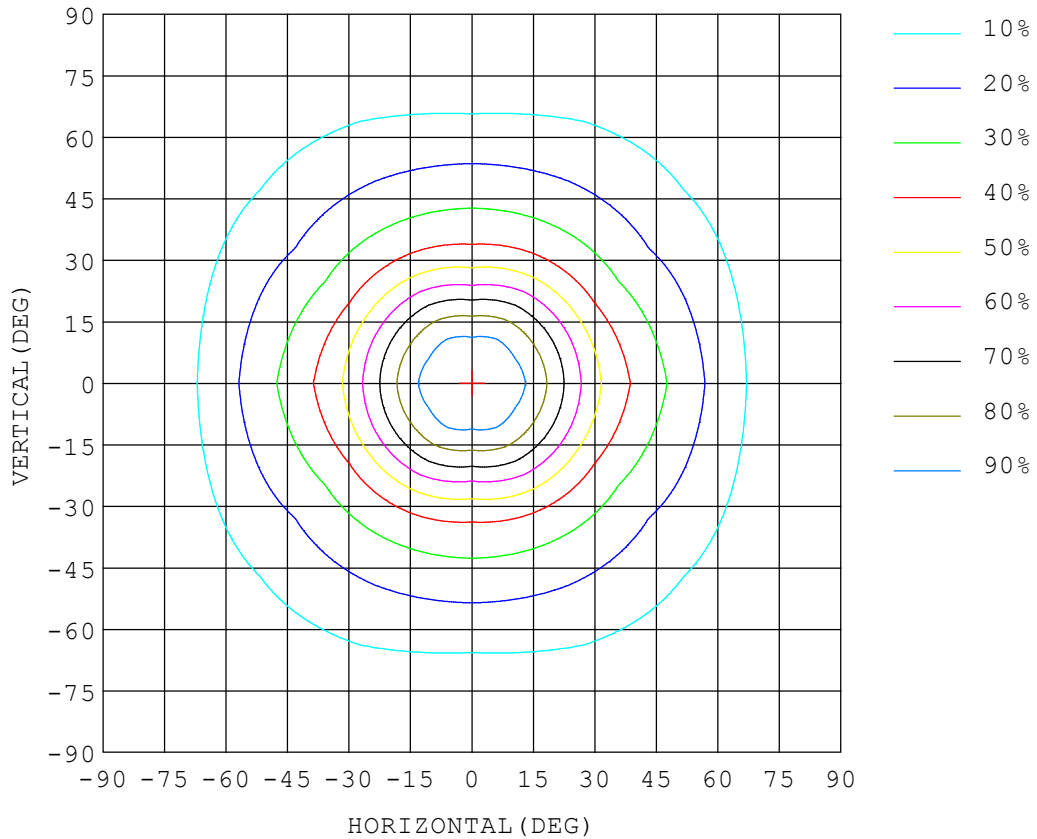
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ISOCANDELA DIAGRAM

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SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

UNIT: cd



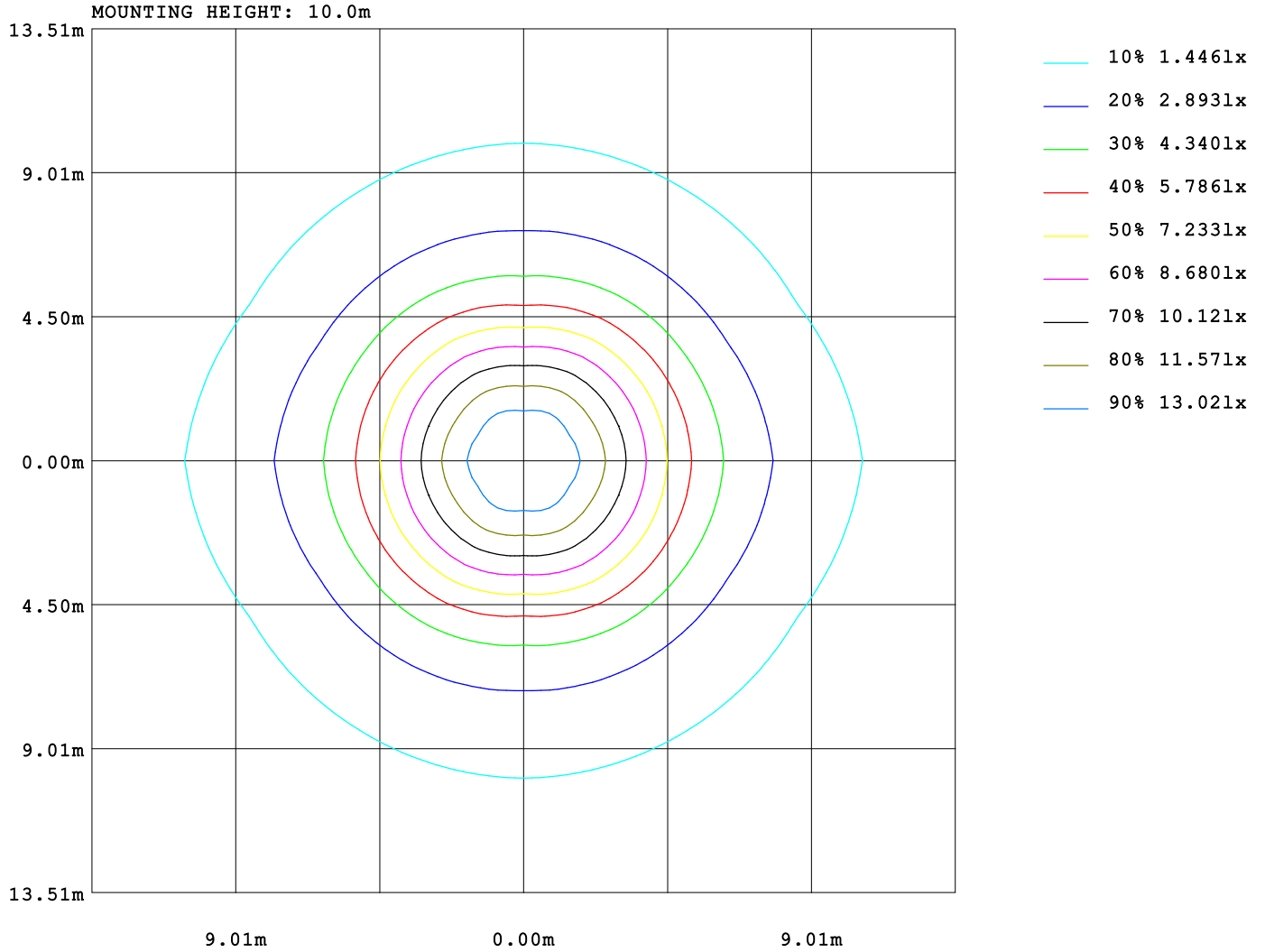
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ISOLUX DIAGRAM

Report number:

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Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

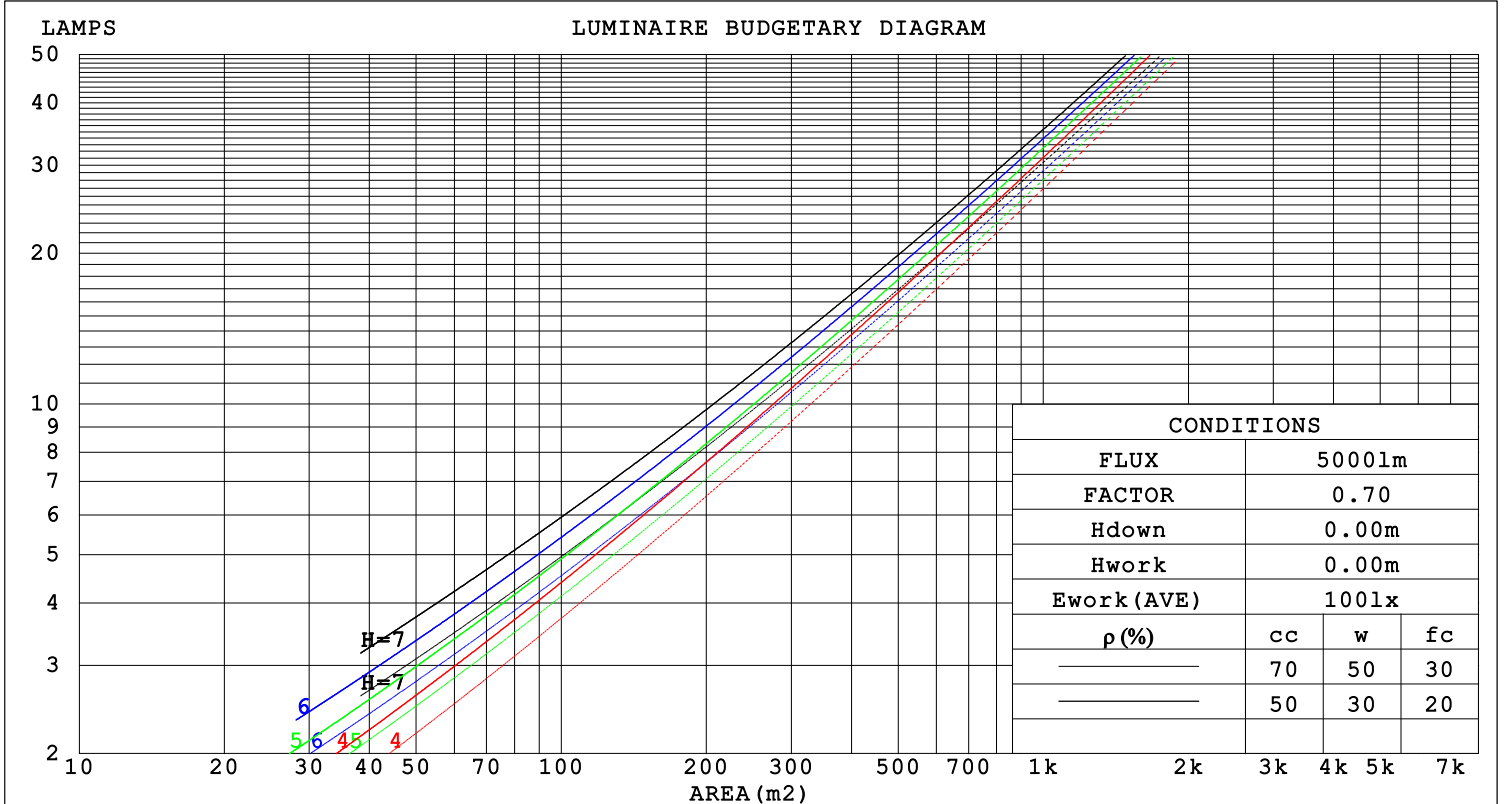
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 Remarks: 3000k

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.06	1.02	.99	1.03	1.00	.97	.99	.96	.94	.95	.92	.90	.91	.89	.87	.85
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.81	.85	.82	.78	.82	.79	.76	.74
3.0	.85	.78	.72	.83	.77	.72	.80	.75	.70	.77	.73	.69	.74	.71	.67	.65
4.0	.77	.69	.64	.76	.68	.63	.73	.67	.62	.70	.65	.61	.68	.64	.60	.58
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.64	.59	.54	.62	.58	.54	.52
6.0	.64	.56	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.58	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.46	.56	.50	.45	.55	.49	.45	.53	.48	.44	.42
8.0	.55	.47	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.50	.44	.41	.39
9.0	.51	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.38	.35	.33



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WEC AND CCEC

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NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

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	.260	.148	.047	.252	.144	.046	.238	.136	.044	.225	.130	.042	.212	.123	.040	
2.0	.246	.135	.041	.239	.132	.041	.227	.126	.039	.215	.121	.038	.204	.116	.036	
3.0	.230	.122	.037	.224	.120	.036	.213	.115	.035	.203	.111	.034	.193	.107	.033	
4.0	.214	.111	.033	.209	.109	.032	.199	.106	.032	.190	.102	.031	.182	.099	.030	
5.0	.200	.102	.030	.195	.100	.029	.187	.097	.029	.179	.094	.028	.171	.091	.027	
6.0	.187	.094	.027	.183	.092	.027	.175	.090	.026	.168	.087	.026	.161	.085	.025	
7.0	.175	.087	.025	.172	.086	.024	.165	.083	.024	.158	.081	.024	.152	.079	.023	
8.0	.165	.081	.023	.162	.080	.023	.155	.078	.022	.150	.076	.022	.144	.074	.022	
9.0	.156	.075	.021	.153	.074	.021	.147	.073	.021	.142	.071	.020	.137	.069	.020	
10.0	.147	.071	.020	.145	.070	.019	.139	.068	.019	.135	.067	.019	.130	.065	.019	

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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.195	.175	.157	.167	.150	.135	.114	.103	.093	.066	.060	.054	.021	.019	.018	
2.0	.185	.151	.122	.158	.130	.106	.108	.090	.074	.063	.052	.043	.020	.017	.014	
3.0	.176	.133	.099	.150	.115	.086	.103	.080	.060	.060	.046	.035	.019	.015	.012	
4.0	.167	.119	.082	.143	.103	.072	.099	.072	.050	.057	.042	.030	.018	.014	.010	
5.0	.159	.108	.071	.137	.094	.061	.094	.065	.043	.055	.038	.026	.018	.013	.008	
6.0	.152	.100	.062	.131	.086	.054	.090	.060	.038	.052	.036	.023	.017	.012	.007	
7.0	.146	.093	.055	.125	.080	.048	.087	.056	.034	.050	.033	.020	.016	.011	.007	
8.0	.140	.087	.050	.120	.075	.044	.083	.053	.031	.048	.031	.019	.016	.010	.006	
9.0	.134	.082	.046	.115	.071	.041	.080	.050	.029	.047	.029	.017	.015	.010	.006	
10.0	.129	.077	.043	.111	.067	.038	.077	.047	.027	.045	.028	.016	.015	.009	.005	

Test System:HOPOO HPG1800
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 Operators:
 Test Date:05-06-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Remarks: 3000k

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

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	17.3	18.6	17.6	18.8	19.0	17.0	18.3	17.3	18.5	18.8
3H	18.1	19.3	18.4	19.6	19.8	17.9	19.1	18.2	19.3	19.6
4H	18.5	19.6	18.8	19.9	20.2	18.3	19.4	18.6	19.7	19.9
6H	18.8	19.8	19.1	20.1	20.5	18.5	19.6	18.9	19.9	20.2
8H	18.9	19.9	19.2	20.2	20.5	18.6	19.6	18.9	19.9	20.2
12H	18.9	19.9	19.3	20.2	20.6	18.6	19.6	19.0	19.9	20.3
4H 2H	17.6	18.7	17.9	19.0	19.3	17.4	18.5	17.7	18.8	19.1
3H	18.6	19.6	19.0	19.9	20.2	18.5	19.5	18.9	19.8	20.1
4H	19.0	19.9	19.4	20.3	20.7	19.0	19.9	19.4	20.2	20.6
6H	19.5	20.2	19.9	20.6	21.0	19.4	20.2	19.8	20.6	21.0
8H	19.6	20.3	20.0	20.7	21.1	19.5	20.2	20.0	20.6	21.1
12H	19.7	20.4	20.2	20.8	21.2	19.6	20.3	20.1	20.7	21.1
8H 4H	19.2	19.9	19.6	20.3	20.8	19.1	19.9	19.6	20.3	20.7
6H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
8H	19.9	20.4	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
12H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.6
12H 4H	19.2	19.9	19.7	20.3	20.7	19.1	19.8	19.6	20.2	20.7
6H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
8H	19.9	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.1 / - 0.3				
2.0H	+ 0.8 / - 0.8					+ 0.4 / - 0.6				

CIE Pub.117 Corrected 2133 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.6)

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UTILIZATION FACTORS TABLE

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Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
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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	66	56	50	65	56	50	64	55	50	44
0.80	75	66	59	74	65	59	73	64	59	53
1.00	83	74	67	82	73	67	79	74	66	60
1.25	89	80	74	88	80	74	85	78	73	66
1.50	93	85	79	92	84	79	89	82	78	71
2.00	99	92	87	97	91	86	94	88	84	76
2.50	102	96	91	100	94	90	96	91	87	79
3.00	105	99	95	103	97	93	98	94	91	82
4.00	108	103	100	106	101	98	101	98	95	86
5.00	110	106	103	108	104	101	103	100	98	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

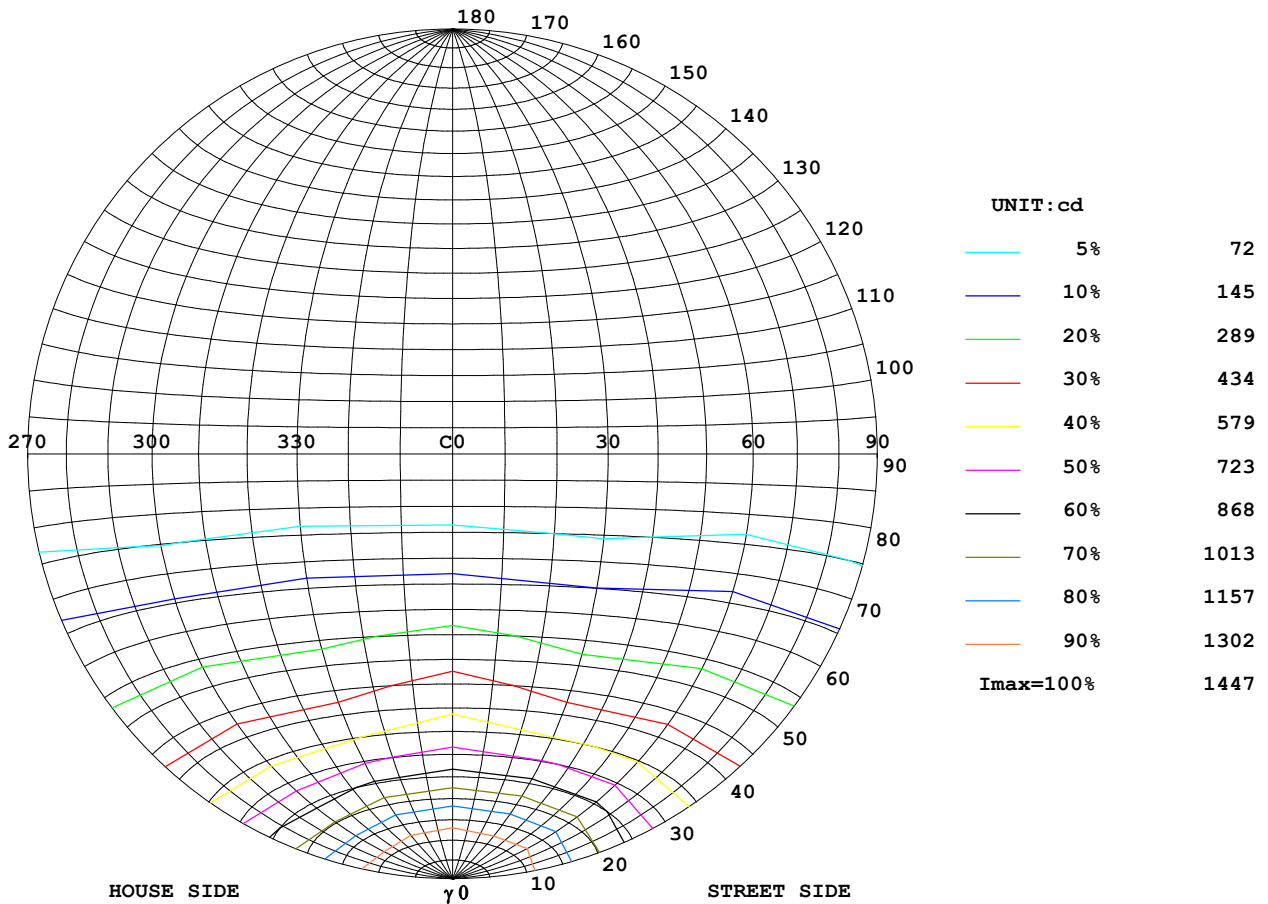
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 Test Date:05-06-2023

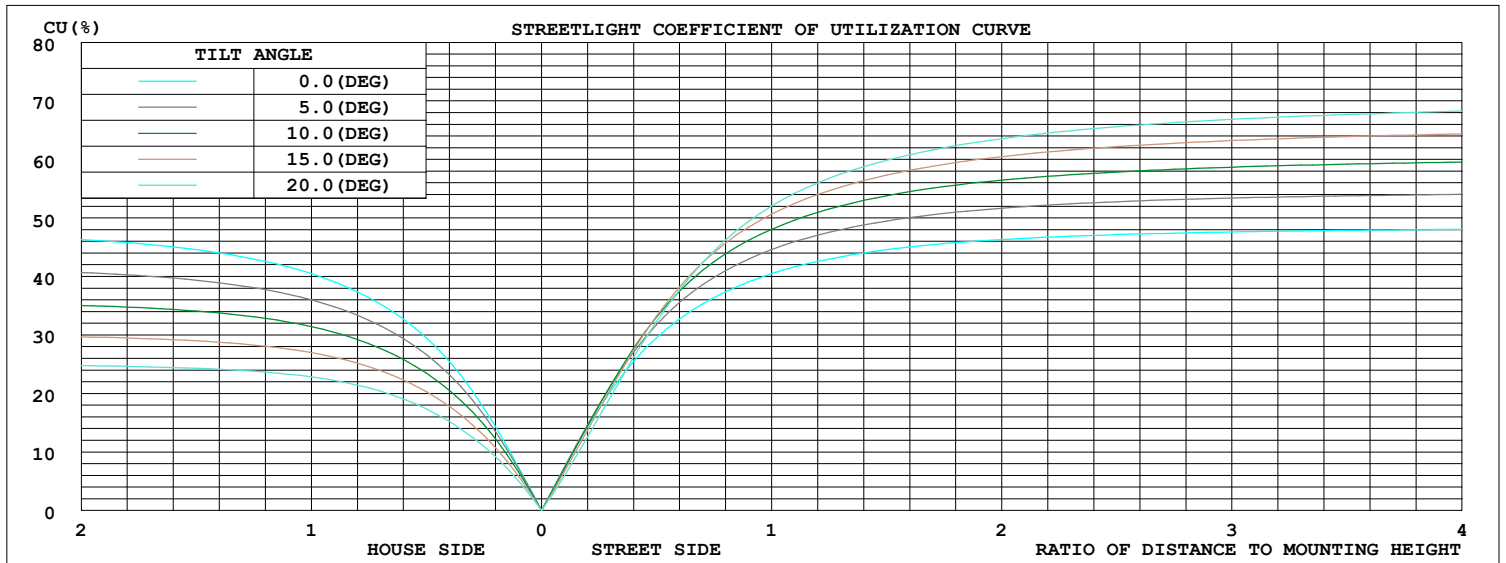
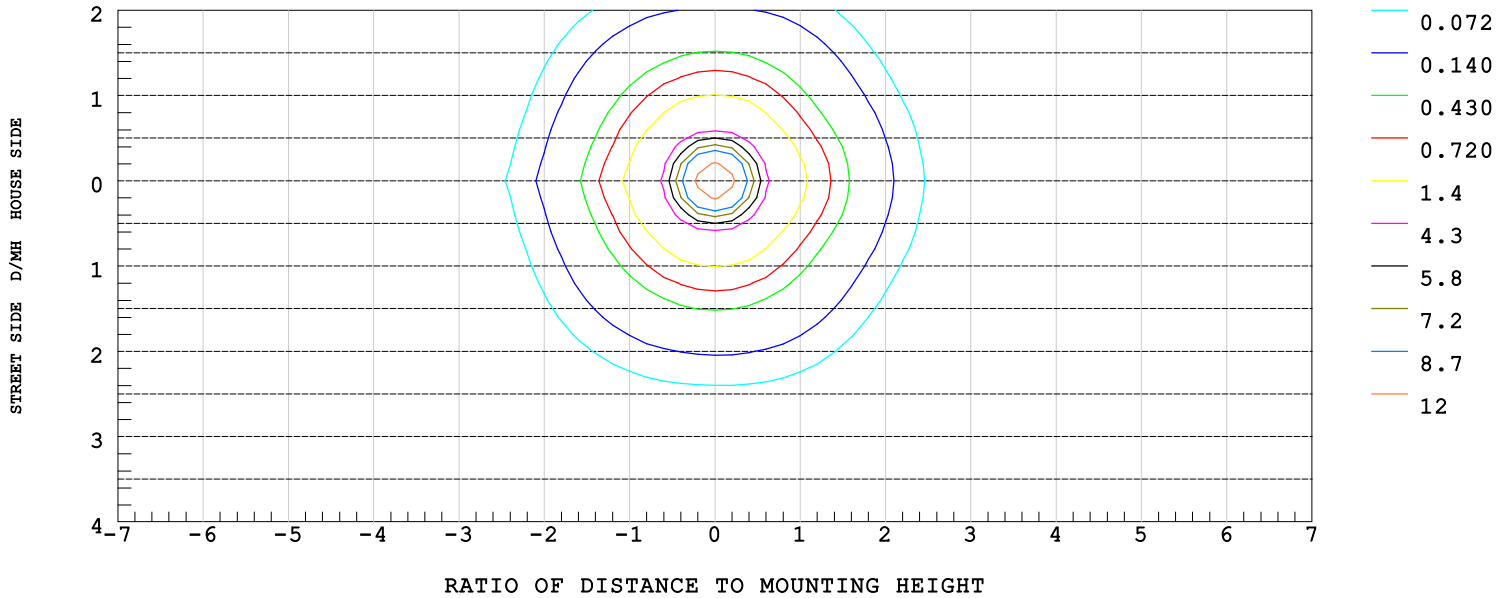
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 14.47 lx



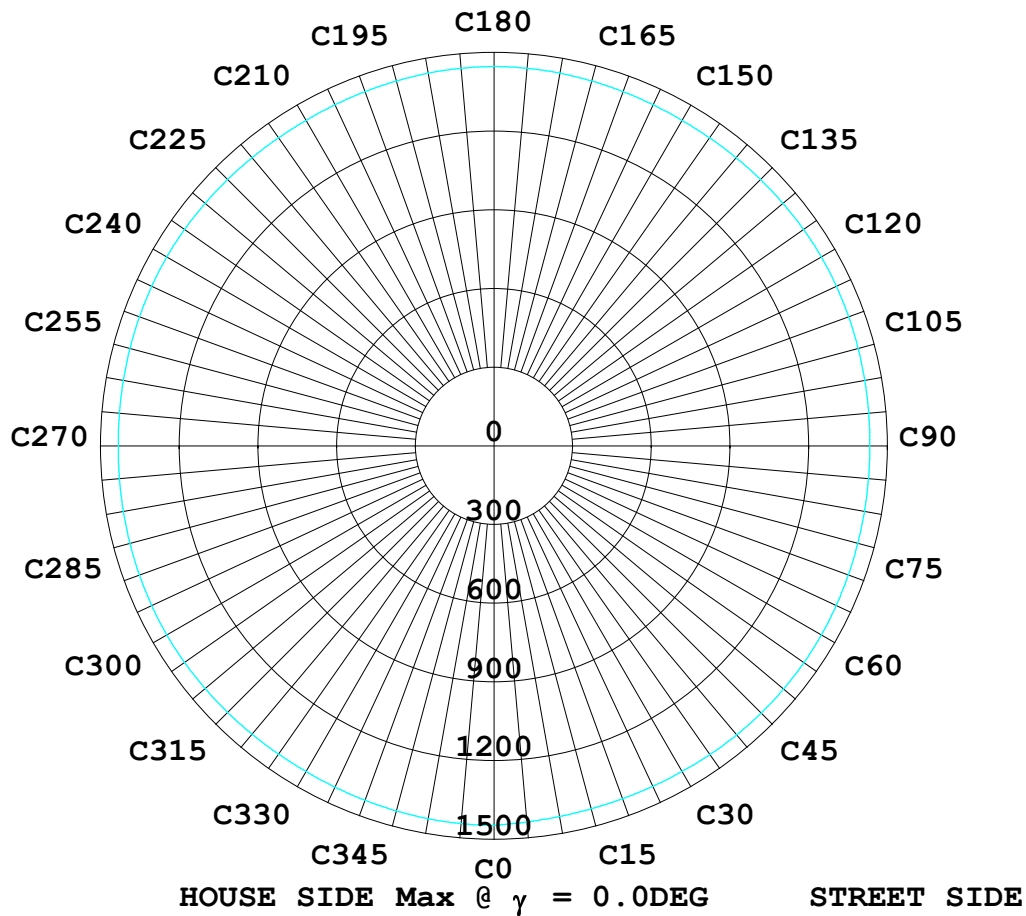
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005		
NAME: 1022-1-2-1-2	TYPE: .5W 3000K CRI90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*66*70	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1447	1433	1441	1433	1441	1433	1447	1433	1441	1433	1441	1433
5.0	1428	1406	1420	1407	1420	1406	1428	1406	1420	1407	1420	1406
10.0	1368	1347	1356	1332	1356	1347	1368	1347	1356	1332	1356	1347
15.0	1260	1240	1239	1205	1239	1240	1260	1240	1239	1205	1239	1240
20.0	1103	1088	1076	1023	1076	1088	1103	1088	1076	1023	1076	1088
25.0	922	904	885	822	885	904	922	904	885	822	885	904
30.0	761	728	705	665	705	728	761	728	705	665	705	728
35.0	645	585	571	553	571	585	645	585	571	553	571	585
40.0	554	477	474	470	474	477	554	477	474	470	474	477
45.0	474	394	396	402	396	394	474	394	396	402	396	394
50.0	397	317	331	333	331	317	397	317	331	333	331	317
55.0	319	255	267	272	267	255	319	255	267	272	267	255
60.0	239	198	213	211	213	198	239	198	213	211	213	198
65.0	165	145	163	151	163	145	165	145	163	151	163	145
70.0	114	100	116	103	116	100	114	100	116	103	116	100
75.0	80.0	67.9	81.6	70.5	81.6	67.9	80.0	67.9	81.6	70.5	81.6	67.9
80.0	52.1	40.5	53.0	42.9	53.0	40.5	52.1	40.5	53.0	42.9	53.0	40.5
85.0	26.3	17.6	27.9	19.7	27.9	17.6	26.3	17.6	27.9	19.7	27.9	17.6
90.0	9.56	2.07	9.11	2.16	9.11	2.07	9.56	2.07	9.11	2.16	9.11	2.07
95.0	8.84	2.52	8.21	2.34	8.21	2.52	8.84	2.52	8.21	2.34	8.21	2.52
100.0	8.39	2.97	7.76	2.79	7.76	2.97	8.39	2.97	7.76	2.79	7.76	2.97
105.0	8.39	3.61	7.49	3.24	7.49	3.61	8.39	3.61	7.49	3.24	7.49	3.61
110.0	8.48	4.33	7.58	3.88	7.58	4.33	8.48	4.33	7.58	3.88	7.58	4.33
115.0	8.75	4.96	7.94	4.60	7.94	4.96	8.75	4.96	7.94	4.60	7.94	4.96
120.0	9.20	5.77	8.30	5.41	8.30	5.77	9.20	5.77	8.30	5.41	8.30	5.77
125.0	9.74	6.67	8.93	6.40	8.93	6.67	9.74	6.67	8.93	6.40	8.93	6.67
130.0	10.2	7.58	9.65	7.40	9.65	7.58	10.2	7.58	9.65	7.40	9.65	7.58
135.0	11.0	8.48	10.4	8.39	10.4	8.48	11.0	8.48	10.4	8.39	10.4	8.48
140.0	11.7	9.47	11.1	9.47	11.1	9.47	11.7	9.47	11.1	9.47	11.1	9.47
145.0	12.4	10.4	12.0	10.4	12.0	10.4	12.4	10.4	12.0	10.4	12.0	10.4
150.0	13.2	11.3	12.8	11.5	12.8	11.3	13.2	11.3	12.8	11.5	12.8	11.3
155.0	13.8	12.1	13.6	12.3	13.6	12.1	13.8	12.1	13.6	12.3	13.6	12.1
160.0	14.5	13.0	14.2	13.0	14.2	13.0	14.5	13.0	14.2	13.0	14.2	13.0
165.0	15.2	13.7	14.8	13.6	14.8	13.7	15.2	13.7	14.8	13.6	14.8	13.7
170.0	15.7	14.4	15.2	14.2	15.2	14.4	15.7	14.4	15.2	14.2	15.2	14.4
175.0	16.1	14.8	15.6	14.8	15.6	14.8	16.1	14.8	15.6	14.8	15.6	14.8
180.0	16.2	15.2	15.7	15.1	15.7	15.2	16.2	15.2	15.7	15.1	15.7	15.2

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-06-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.500 m
 Remarks: 3000k