

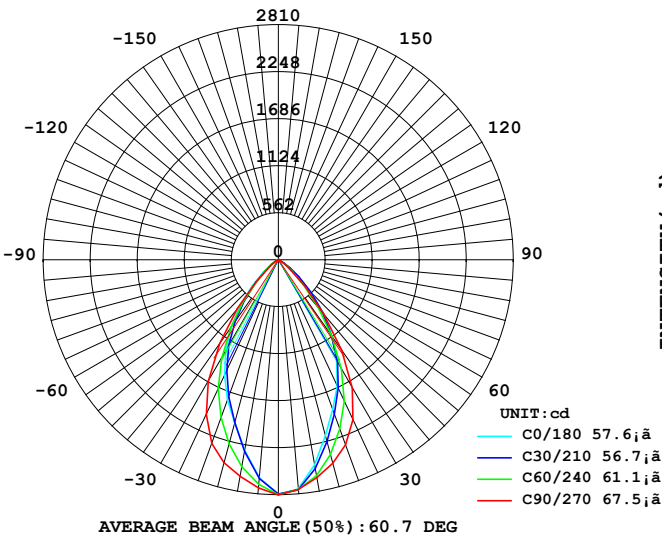
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

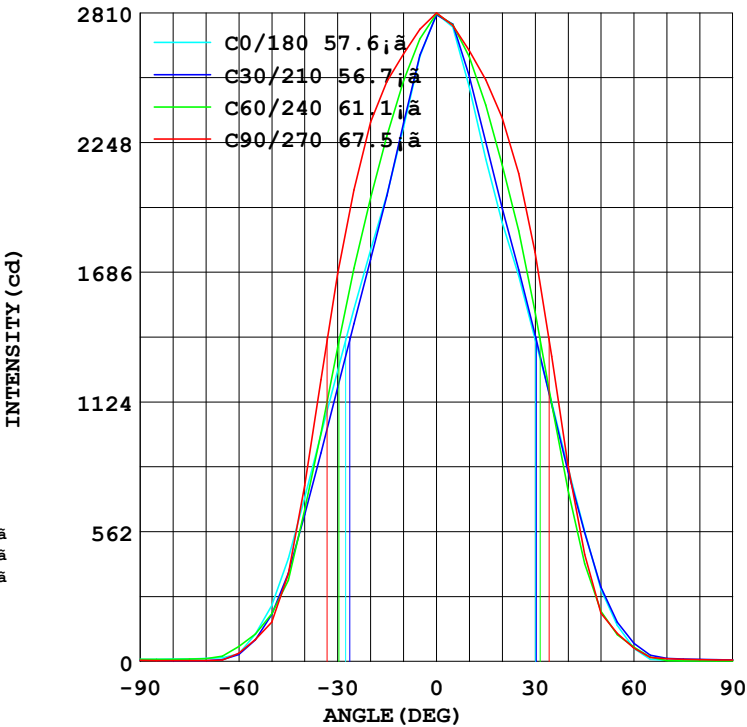
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	2810	S/MH (C0/180)	0.78
MODEL	XTO 40	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.98
NOMINAL POWER (W)	28	TOTAL FLUX (lm)	2857.1	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	100.3	Current (A)	0.122
NOMINAL FLUX (lm)	2857.2	η up (%)	0.0	Power (W)	28.50
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.9	Effictive Flux(lm)	2672.8	EEI	0.145

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

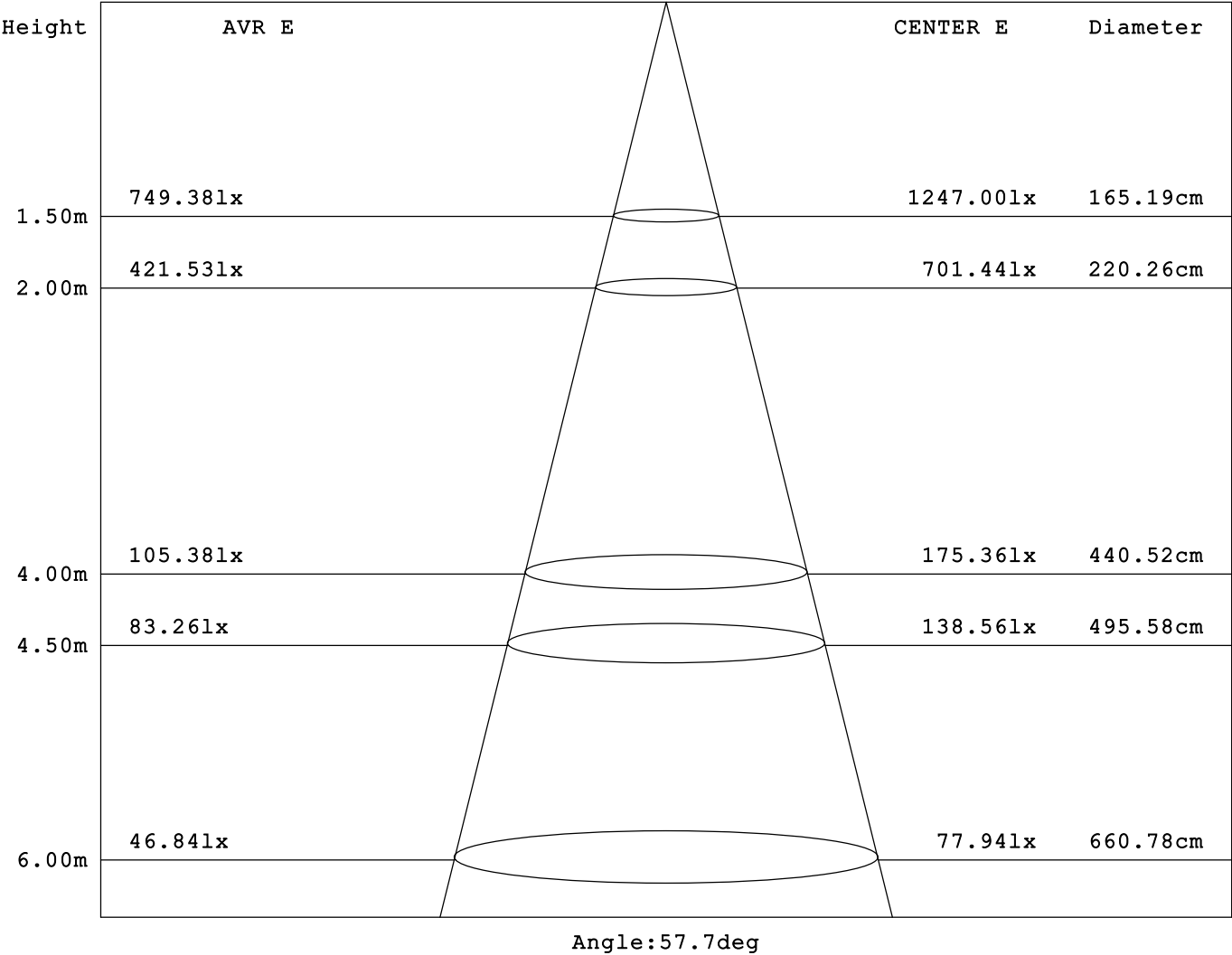
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2314	2424	2632	2525	2490	2579	2647	2439	0- 10	252.4	252.4
20.0	1782	1875	2336	2002	1902	2058	2355	1903	10- 20	633.1	885.5
30.0	1259	1272	1679	1393	1395	1465	1772	1305	20- 30	788.9	1675
40.0	708.9	645.4	761.9	747.7	839.1	782.7	849.4	674.9	30- 40	668.0	2343
50.0	241.3	204.9	169.6	257.0	311.6	268.8	208.6	224.5	40- 50	358.2	2701
60.0	32.54	46.94	35.45	63.52	56.14	69.45	57.11	50.94	50- 60	119.4	2820
70.0	12.58	8.046	3.025	8.530	5.445	8.349	11.85	7.199	60- 70	23.29	2844
80.0	9.801	6.594	3.025	6.292	4.840	5.142	7.986	4.779	70- 80	7.220	2851
90.0	9.196	7.562	5.324	6.715	6.534	4.174	5.929	3.872	80- 90	6.328	2857
100.0									90-100		
110.0									100-110		
120.0									110-120		
130.0									120-130		
140.0									130-140		
150.0									140-150		
160.0									150-160		
170.0									160-170		
180.0									170-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

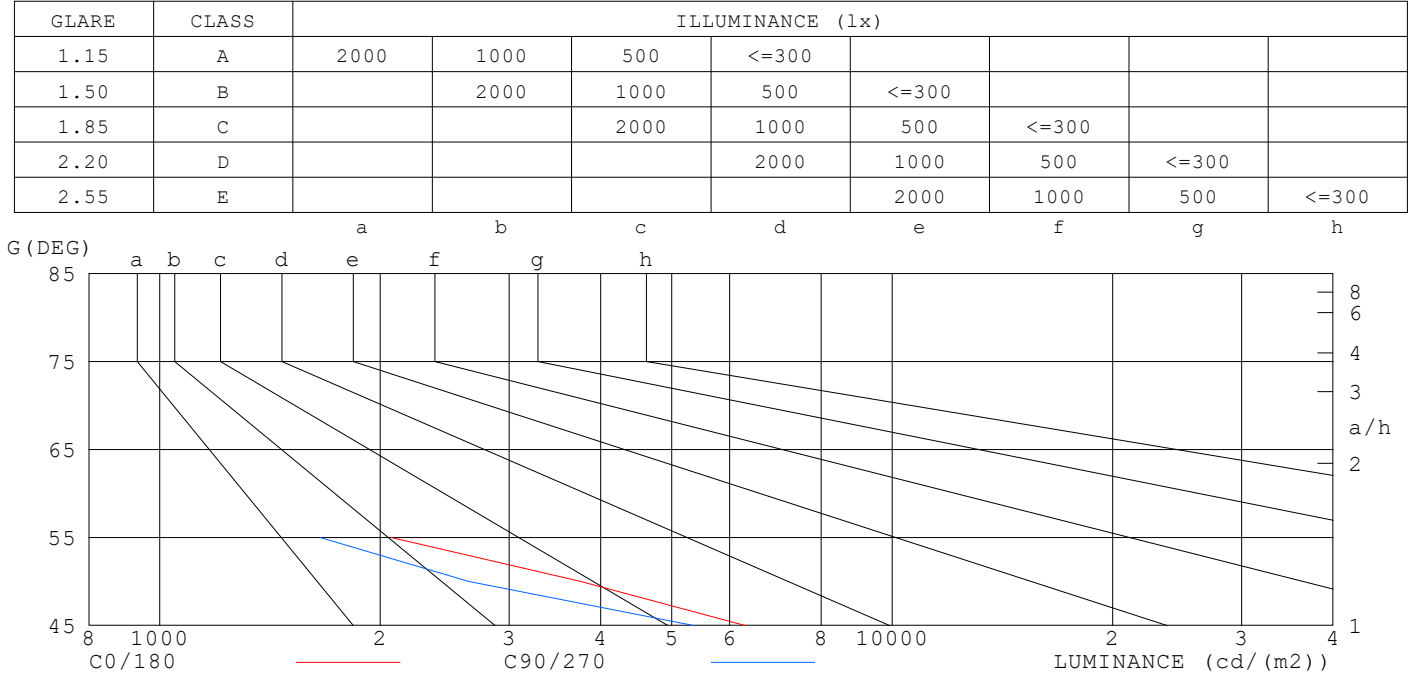
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2

G (DEG)	C0/180	C90/270
85	1083	416
80	564	174
75	411	112
70	368	88
65	364	135
60	651	709
55	2072	1656
50	3755	2639
45	6301	5363

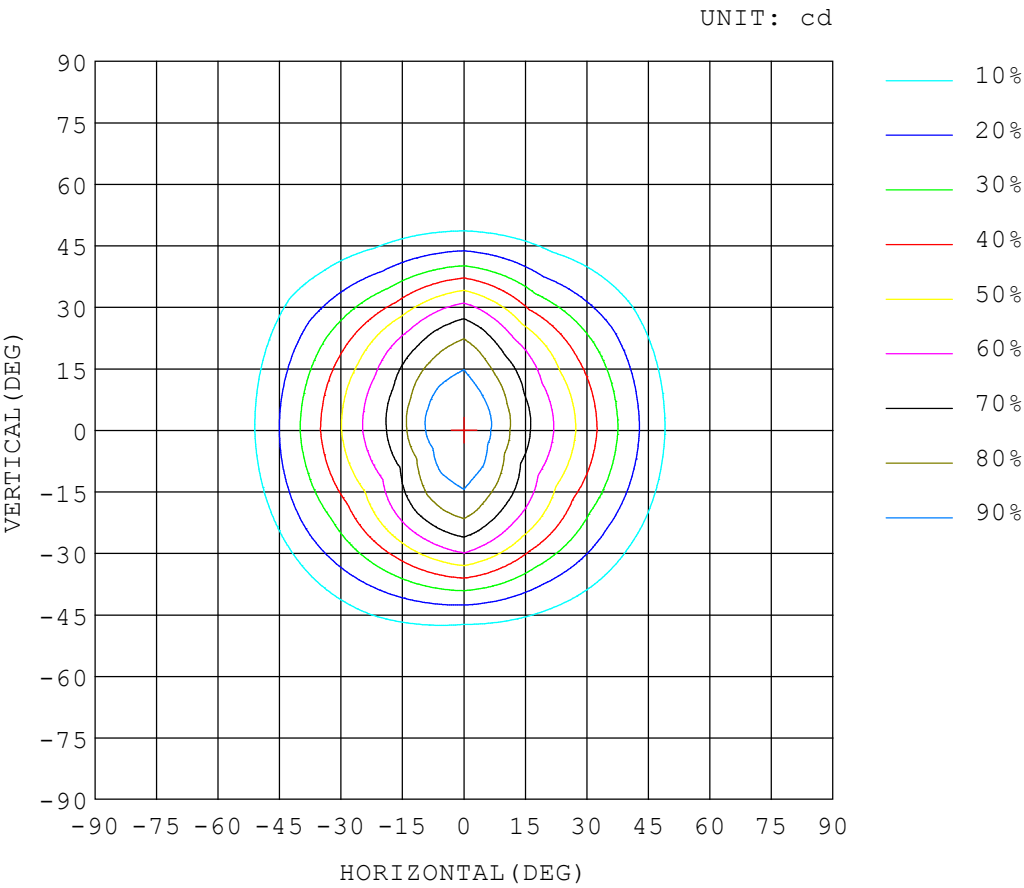
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



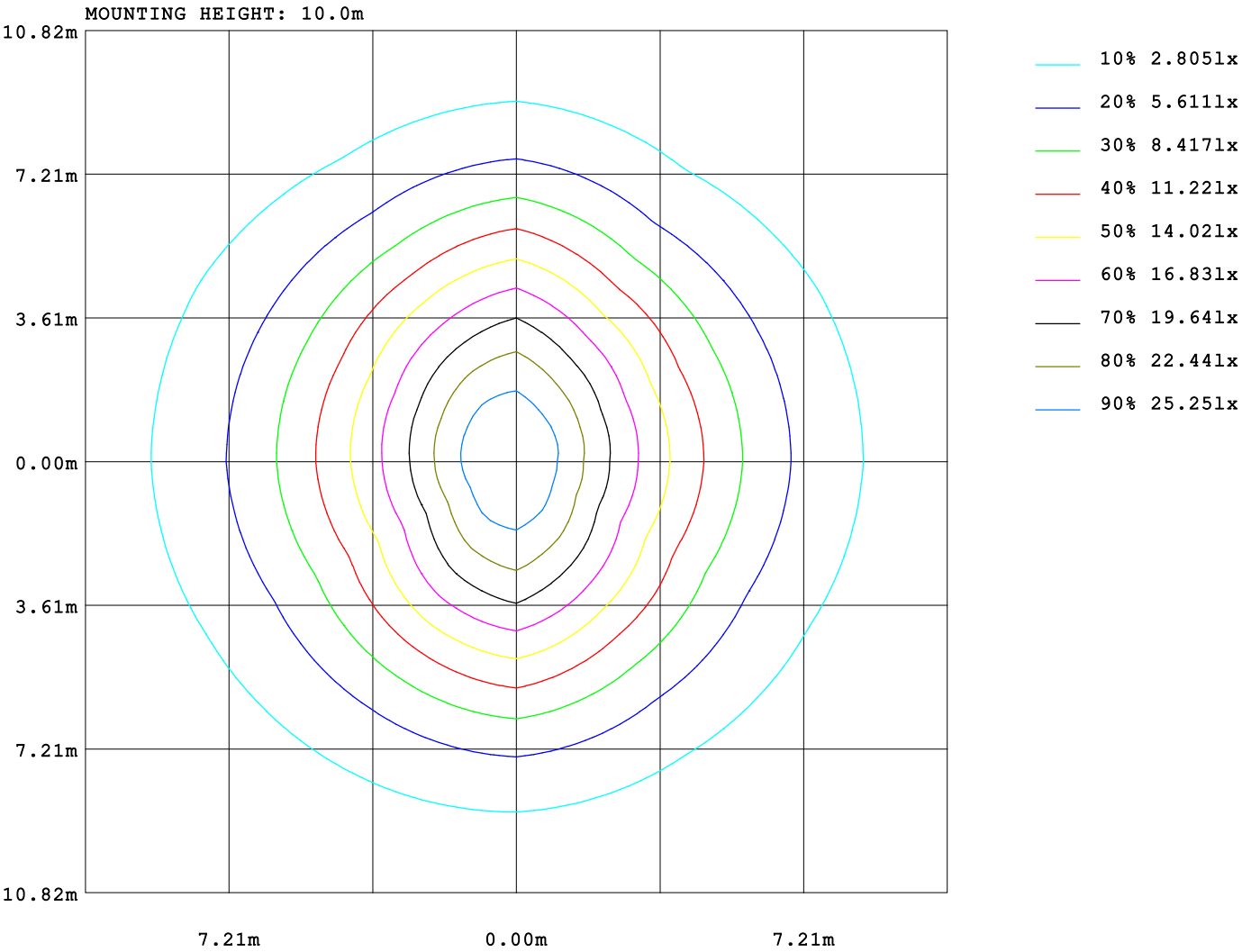
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Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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Remarks: 3000K

ISOLUX DIAGRAM

Report number:

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NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																				
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																				
NAME: XTO ZORRO										TYPE: 3000K CRI-90					WEIGHT:					
SPECIFICATION: FULHAM 600 MA										DIMENSION: L-1200 D-90 MM					SERIAL No.:					

90 80 70 60 50 40 30
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Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

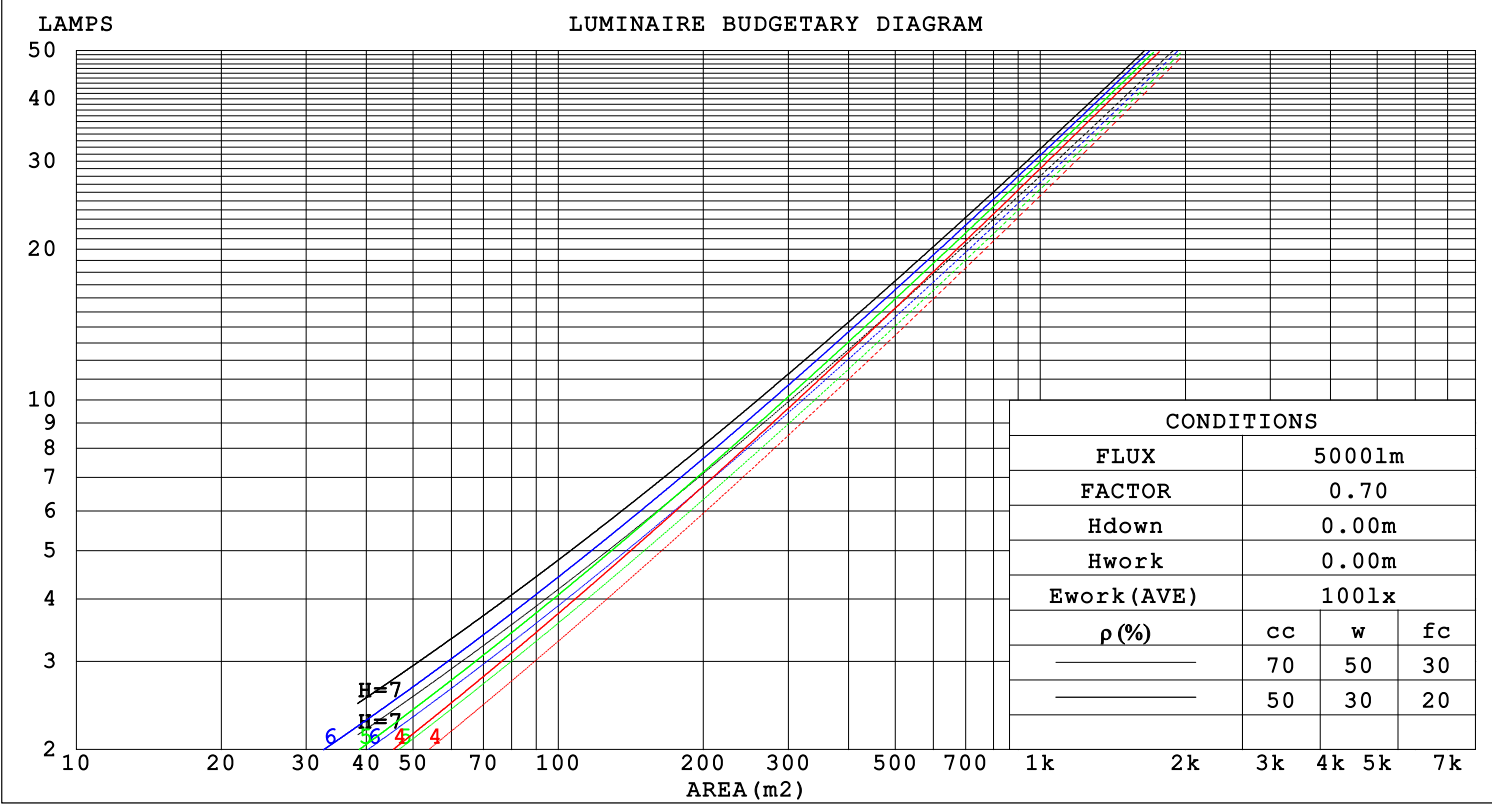
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS															
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019															
NAME: XTO ZORRO								TYPE: 3000K CRI-90				WEIGHT:			
SPECIFICATION: FULHAM 600 MA								DIMENSION: L-1200 D-90 MM				SERIAL No.:			

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pf _c	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.88	.83	.92	.87	.83	.89	.85	.81	.87	.83	.80	.84	.81	.79	.77
4.0	.86	.80	.75	.85	.79	.75	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71
5.0	.80	.73	.69	.79	.73	.68	.77	.72	.68	.75	.71	.67	.74	.70	.67	.65
6.0	.74	.68	.63	.73	.67	.63	.72	.66	.62	.70	.66	.62	.69	.65	.61	.60
7.0	.69	.63	.58	.69	.62	.58	.67	.62	.57	.66	.61	.57	.65	.60	.57	.55
8.0	.65	.58	.54	.64	.58	.54	.63	.57	.53	.62	.57	.53	.61	.56	.53	.51
9.0	.61	.54	.50	.60	.54	.50	.59	.53	.50	.58	.53	.49	.57	.53	.49	.48
10.0	.57	.51	.46	.57	.50	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.45



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

WEC AND CCEC

Report number:

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NAME: XTO ZORRO					TYPE: 3000K CRI-90					WEIGHT:				
SPECIFICATION: FULHAM 600 MA					DIMENSION: L-1200 D-90 MM					SERIAL No.:				

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.196	.111	.035	.189	.108	.034	.176	.101	.032	.165	.095	.031	.154	.089	.029	
2.0	.189	.104	.032	.183	.101	.031	.173	.096	.030	.163	.091	.029	.153	.087	.027	
3.0	.181	.096	.029	.176	.094	.028	.167	.090	.027	.158	.087	.027	.150	.083	.026	
4.0	.172	.090	.026	.168	.088	.026	.160	.085	.025	.152	.082	.025	.145	.079	.024	
5.0	.164	.084	.024	.160	.082	.024	.153	.080	.023	.147	.077	.023	.140	.075	.023	
6.0	.156	.078	.022	.153	.077	.022	.147	.075	.022	.141	.073	.022	.135	.071	.021	
7.0	.149	.074	.021	.146	.073	.021	.140	.071	.020	.135	.069	.020	.130	.068	.020	
8.0	.142	.069	.020	.139	.069	.019	.134	.067	.019	.130	.066	.019	.125	.064	.019	
9.0	.136	.066	.018	.133	.065	.018	.129	.064	.018	.125	.062	.018	.121	.061	.018	
10.0	.130	.062	.017	.128	.062	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.172	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.067	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.050	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.100	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.111	.065	.034	.096	.057	.030	.066	.040	.021	.038	.024	.013	.012	.008	.004	
9.0	.106	.060	.030	.091	.052	.026	.063	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.101	.056	.026	.087	.049	.023	.061	.034	.016	.035	.020	.010	.011	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks: 3000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: XTO ZORRO					TYPE: 3000K CRI-90			WEIGHT:			
SPECIFICATION: FULHAM 600 MA					DIMENSION: L-1200 D-90 MM			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	13.7	14.8	13.9	14.9	15.1	13.9	15.0	14.2	15.2	15.3	
	3H	13.5	14.5	13.8	14.7	14.9	13.7	14.7	14.0	14.9	15.1
	4H	13.4	14.4	13.7	14.6	14.8	13.7	14.6	13.9	14.8	15.0
	6H	13.4	14.3	13.7	14.5	14.8	13.6	14.4	13.9	14.7	14.9
	8H	13.4	14.2	13.7	14.5	14.7	13.5	14.4	13.8	14.6	14.9
	12H	13.4	14.2	13.7	14.4	14.7	13.5	14.3	13.8	14.6	14.8
4H	2H	13.5	14.4	13.8	14.6	14.8	13.7	14.6	14.0	14.8	15.1
	3H	13.3	14.1	13.6	14.4	14.6	13.5	14.3	13.8	14.6	14.9
	4H	13.2	13.9	13.6	14.2	14.6	13.4	14.2	13.8	14.5	14.8
	6H	13.2	13.8	13.6	14.1	14.5	13.4	14.0	13.7	14.3	14.7
	8H	13.2	13.8	13.6	14.1	14.5	13.3	13.9	13.7	14.3	14.6
	12H	13.2	13.8	13.6	14.1	14.5	13.3	13.8	13.7	14.2	14.6
8H	4H	13.1	13.7	13.5	14.0	14.4	13.3	13.9	13.7	14.2	14.6
	6H	13.1	13.5	13.5	13.9	14.3	13.3	13.7	13.7	14.1	14.6
	8H	13.1	13.5	13.5	13.9	14.4	13.3	13.7	13.7	14.1	14.5
	12H	13.2	13.5	13.6	14.0	14.4	13.3	13.6	13.7	14.1	14.5
12H	4H	13.1	13.6	13.5	14.0	14.4	13.3	13.8	13.7	14.2	14.6
	6H	13.0	13.4	13.5	13.9	14.3	13.2	13.6	13.7	14.1	14.5
	8H	13.0	13.4	13.5	13.8	14.3	13.2	13.6	13.7	14.0	14.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.7 / - 8.3					+ 3.1 / - 8.0					
1.5H	+ 3.7 / - 7.8					+ 4.6 / - 4.2					
2.0H	+ 6.5 / - 8.0					+ 5.8 / - 8.2					

CIE Pub.117 Corrected 2857 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.6)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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UTILIZATION FACTORS TABLE

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

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) $k(RI) \times RCR = 5$									
$k = 0.60$	80	72	68	79	72	68	79	72	67	63
0.80	89	81	77	88	81	77	87	80	76	72
1.00	95	88	84	94	87	83	92	88	83	78
1.25	100	93	89	98	93	89	96	92	88	83
1.50	103	97	93	102	96	93	99	95	92	87
2.00	106	102	98	105	101	97	102	99	96	90
2.50	108	104	101	107	103	100	104	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	105	107	104	103	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

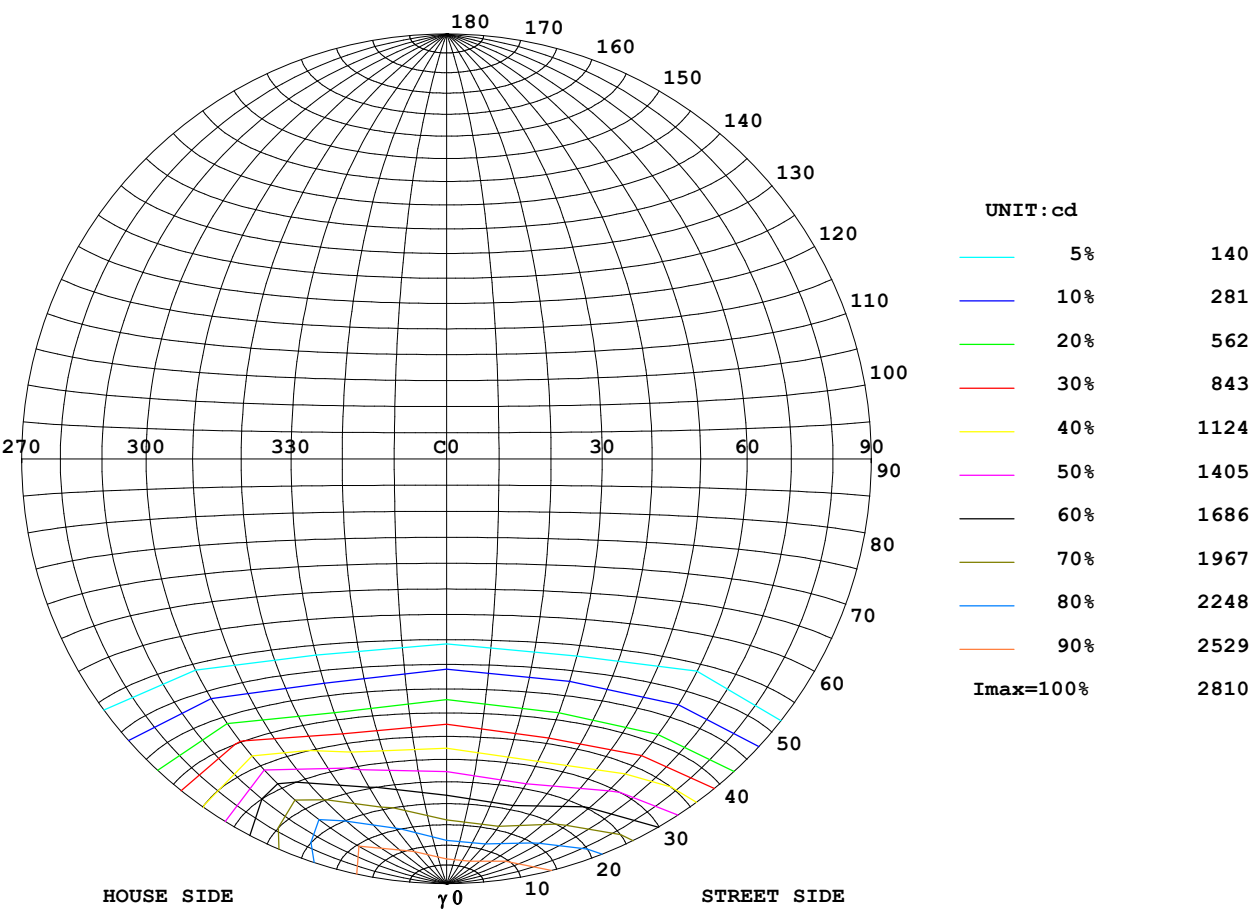
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

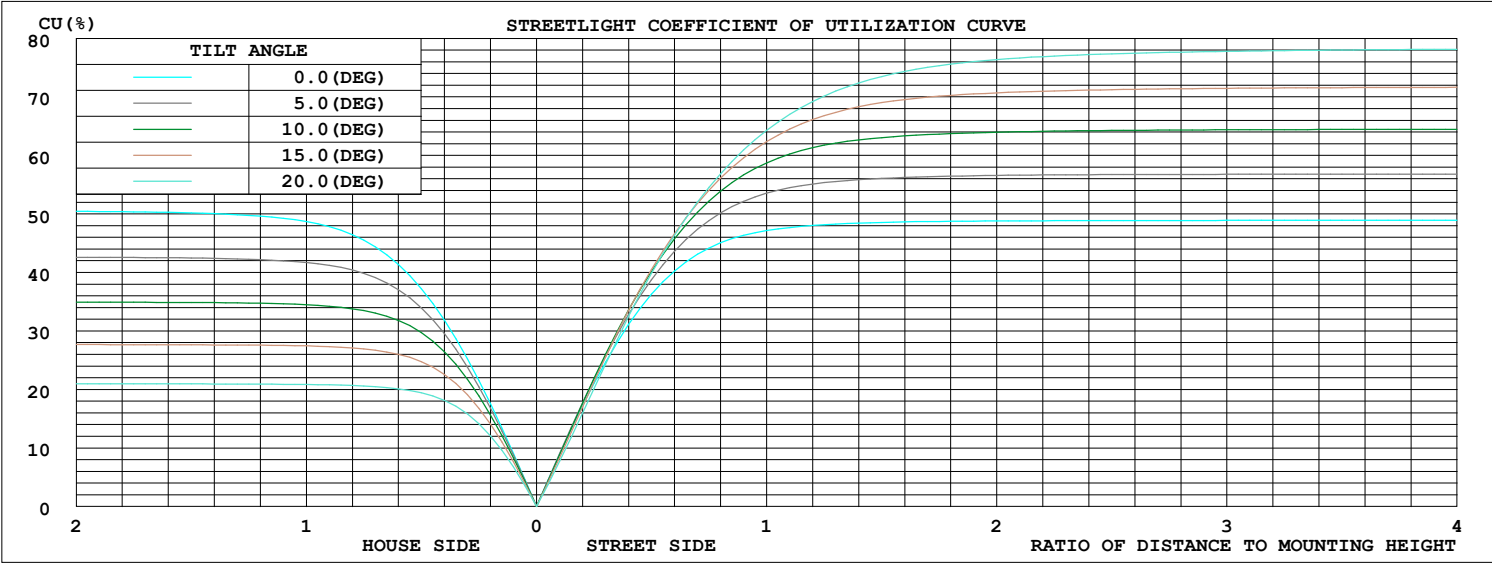
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Humidity:65.0%
Test Distance:11.000 m
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ISOLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 28.06 lx



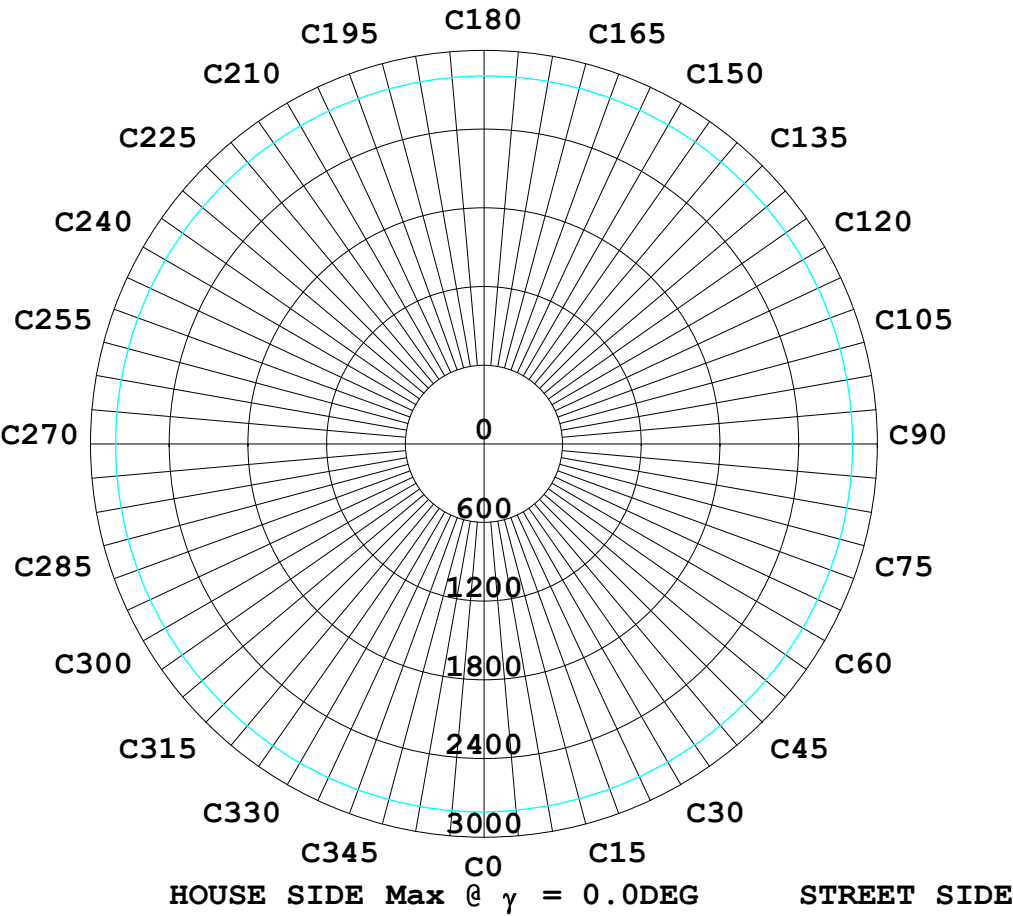
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Test Distance:11.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2806	2801	2807	2810	2809	2809	2806	2801	2807	2810	2809	2809
5.0	2620	2626	2697	2738	2747	2725	2748	2760	2758	2756	2696	2668
10.0	2314	2333	2515	2632	2592	2458	2490	2538	2620	2647	2501	2378
15.0	2021	2017	2276	2512	2391	2140	2175	2249	2410	2519	2268	2078
20.0	1782	1741	2008	2336	2157	1847	1902	1964	2152	2355	2004	1803
25.0	1526	1464	1703	2043	1845	1575	1669	1695	1865	2113	1702	1526
30.0	1259	1185	1360	1679	1484	1302	1395	1416	1514	1772	1351	1258
35.0	983	904	989	1221	1104	1023	1122	1113	1115	1321	983	981
40.0	709	635	656	762	751	744	839	823	742	849	643	707
45.0	446	382	352	379	461	531	563	558	423	464	366	458
50.0	241	204	206	170	247	267	312	321	216	209	196	253
55.0	119	92.9	118	94.9	138	129	156	170	115	121	106	126
60.0	32.5	29.2	64.6	35.4	76.3	50.6	56.1	77.6	61.2	57.1	52.9	48.8
65.0	15.3	7.38	22.9	5.68	31.3	11.7	8.34	27.7	18.3	17.7	13.7	18.1
70.0	12.5	3.87	12.2	3.02	13.0	3.99	5.44	13.5	3.14	11.8	2.78	11.6
75.0	10.6	3.75	10.0	2.90	10.5	3.50	4.96	10.1	2.29	9.43	2.17	9.31
80.0	9.80	3.99	9.19	3.02	9.19	3.38	4.84	8.47	1.81	7.98	1.81	7.74
85.0	9.43	4.71	8.95	3.63	8.47	3.87	4.84	7.01	1.69	6.89	1.69	6.53
90.0	9.19	6.17	8.95	5.32	8.34	5.08	6.53	6.05	2.29	5.92	2.42	5.32

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