

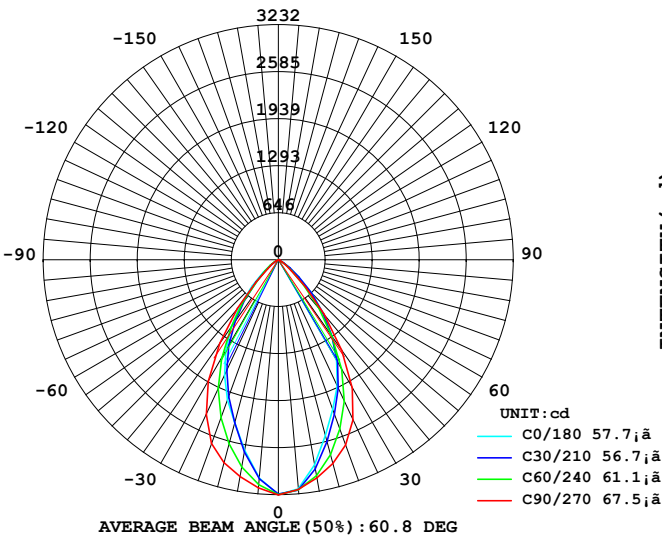
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

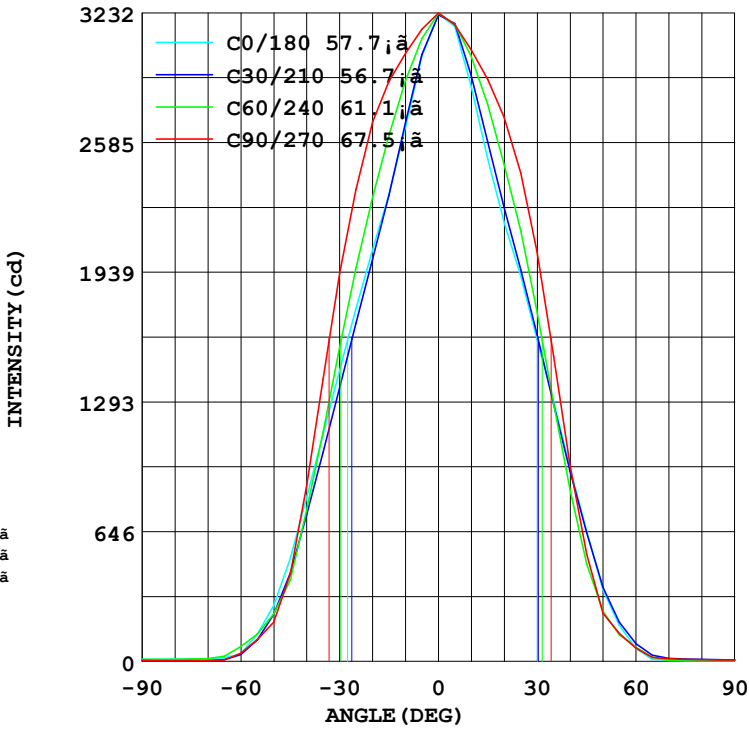
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	3234	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)	3288.3	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	115.8	Current (A)	0.118
NOMINAL FLUX (lm)	3288.3	η up (%)	0.0	Power (W)	28.40
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.9	Effictive Flux(lm)	3087.0	EEI	0.125

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:11.800 m
Remarks: 4000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

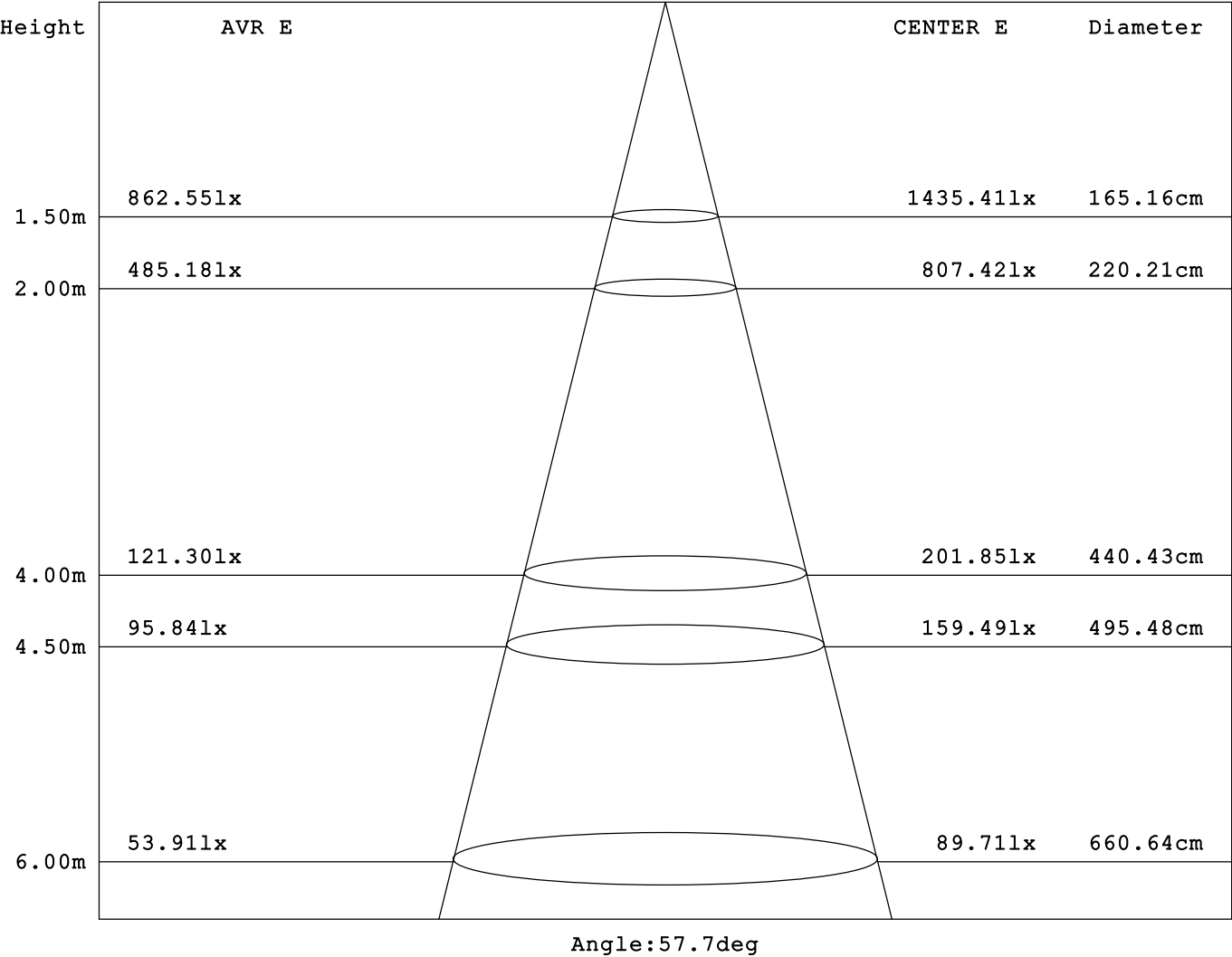
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

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: 4000K 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:11.800 m
Remarks: 4000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K 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	2665	2790	3029	2905	2866	2968	3048	2808	0- 10	290.5	290.5
20.0	2051	2159	2688	2303	2189	2369	2710	2191	10- 20	728.6	1019
30.0	1450	1465	1932	1602	1605	1685	2040	1502	20- 30	907.9	1927
40.0	816.9	742.7	876.2	859.8	965.3	901.5	978.4	777.6	30- 40	768.8	2696
50.0	277.7	235.8	195.0	295.6	358.4	309.2	240.0	259.0	40- 50	412.4	3108
60.0	37.59	54.02	40.93	73.10	64.18	79.92	65.86	58.82	50- 60	137.4	3246
70.0	14.34	9.259	3.481	9.746	6.126	9.398	13.50	8.284	60- 70	26.81	3273
80.0	11.41	7.588	3.481	7.170	5.569	5.987	9.050	5.499	70- 80	8.293	3281
90.0	10.72	8.841	5.987	7.658	7.518	4.734	6.683	4.525	80- 90	7.276	3288
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

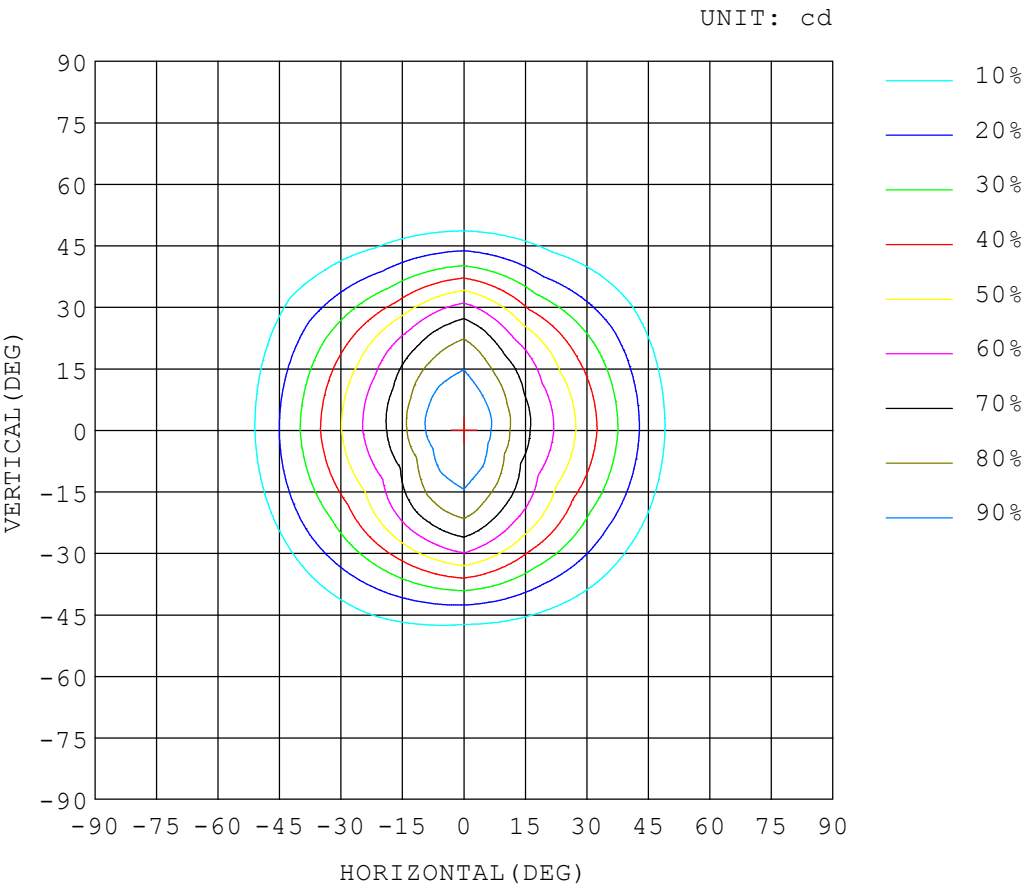
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

Report number:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:



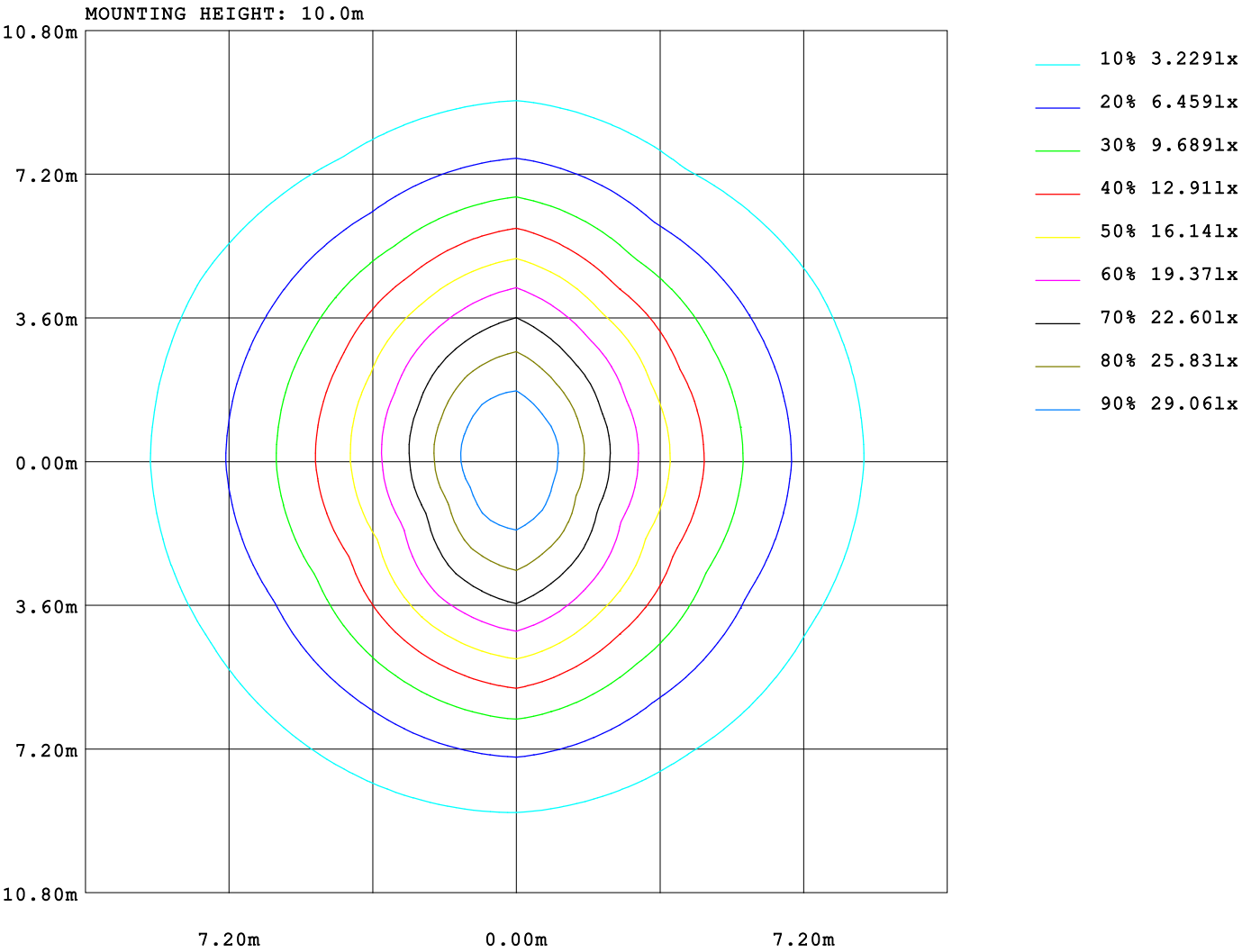
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K 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:11.800 m
Remarks: 4000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																			
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																			
NAME: XTO ZORRO										TYPE: 4000K CRI-90					WEIGHT:				
SPECIFICATION: FULHAM 600 MA										DIMENSION: L-1200 D-90 MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.02	0.06	0.09	0.12	0.11	0.08	0.09	0.15	0.21	0.21	0.15	0.09	0.08	0.10	0.11	0.10	0.07	0.03				
90																						
80																			1.83	0.00		
70																			2.28	0.00		
60																			5.44	0.00		
50																			24.8	0.00		
40																			83.5	53.4		
30																			214	200		
																			360	351		
																			460	452		
																			514	507		
																			505	498		
																			446	439		
-30																			346	336		
-40																			203	190		
-50																			77.7	47.5		
-60																			23.5	0.00		
-70																			5.28	0.00		
-80																			2.60	0.00		
-90																			2.60	0.00		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	0.30	0.87	2.65	19.8	80.3	190	327	478	609	590	441	293	162	63.1	14.7	2.89	1.44	0.49	3288			
Φ a	0.00	0.00	0.00	0.97	61.2	174	312	464	596	576	425	276	146	41.6	0.00	0.00	0.00	0.00		3087		

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

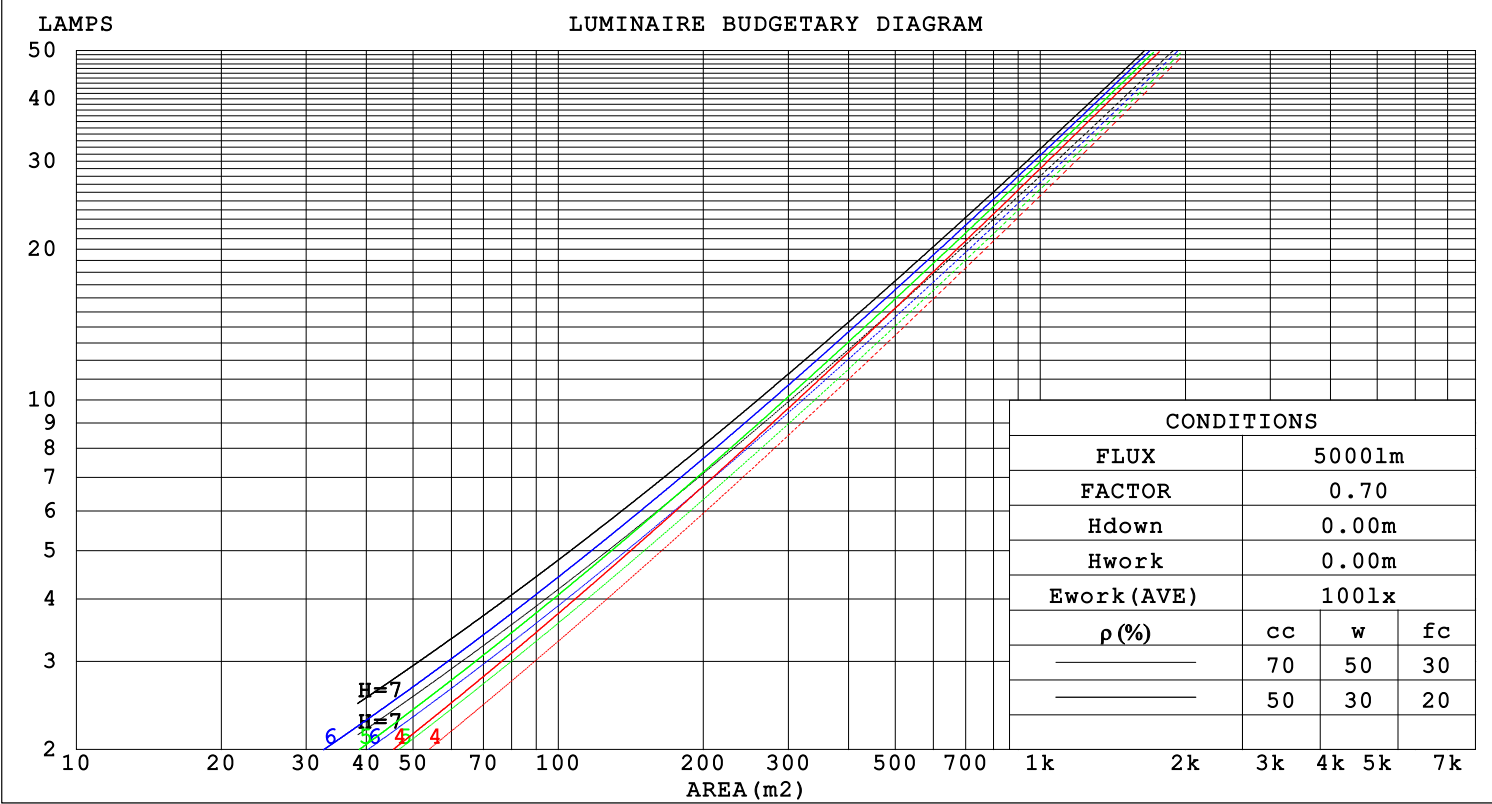
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

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: 4000K 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:11.800 m
Remarks: 4000K

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: XTO ZORRO					TYPE: 4000K 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:11.800 m
 Remarks: 4000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: XTO ZORRO					TYPE: 4000K 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	14.2	15.2	14.4	15.4	15.6	14.4	15.5	14.6	15.7	15.8
	3H	14.0	15.0	14.3	15.2	15.4	14.2	15.2	14.5	15.4	15.6
	4H	13.9	14.9	14.2	15.1	15.3	14.1	15.1	14.4	15.3	15.5
	6H	13.9	14.7	14.2	15.0	15.2	14.1	14.9	14.4	15.2	15.4
	8H	13.9	14.7	14.2	15.0	15.2	14.0	14.8	14.3	15.1	15.4
	12H	13.9	14.7	14.2	14.9	15.2	14.0	14.8	14.3	15.1	15.3
4H	2H	14.0	14.9	14.2	15.1	15.3	14.2	15.1	14.5	15.3	15.6
	3H	13.8	14.6	14.1	14.9	15.1	14.0	14.8	14.3	15.1	15.4
	4H	13.7	14.4	14.1	14.7	15.1	13.9	14.6	14.3	14.9	15.3
	6H	13.7	14.3	14.1	14.6	15.0	13.9	14.5	14.2	14.8	15.2
	8H	13.7	14.3	14.1	14.6	15.0	13.8	14.4	14.2	14.8	15.1
	12H	13.7	14.2	14.1	14.6	15.0	13.8	14.3	14.2	14.7	15.1
8H	4H	13.6	14.2	14.0	14.5	14.9	13.8	14.4	14.2	14.7	15.1
	6H	13.6	14.0	14.0	14.4	14.8	13.8	14.2	14.2	14.6	15.0
	8H	13.6	14.0	14.0	14.4	14.8	13.7	14.2	14.2	14.6	15.0
	12H	13.6	14.0	14.1	14.4	14.9	13.8	14.1	14.2	14.6	15.0
12H	4H	13.5	14.1	14.0	14.5	14.8	13.8	14.3	14.2	14.7	15.1
	6H	13.5	13.9	14.0	14.4	14.8	13.7	14.1	14.2	14.5	15.0
	8H	13.5	13.9	14.0	14.3	14.8	13.7	14.1	14.2	14.5	15.0
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 3288 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

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:11.800 m
Remarks: 4000K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: XTO ZORRO	TYPE: 4000K 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		

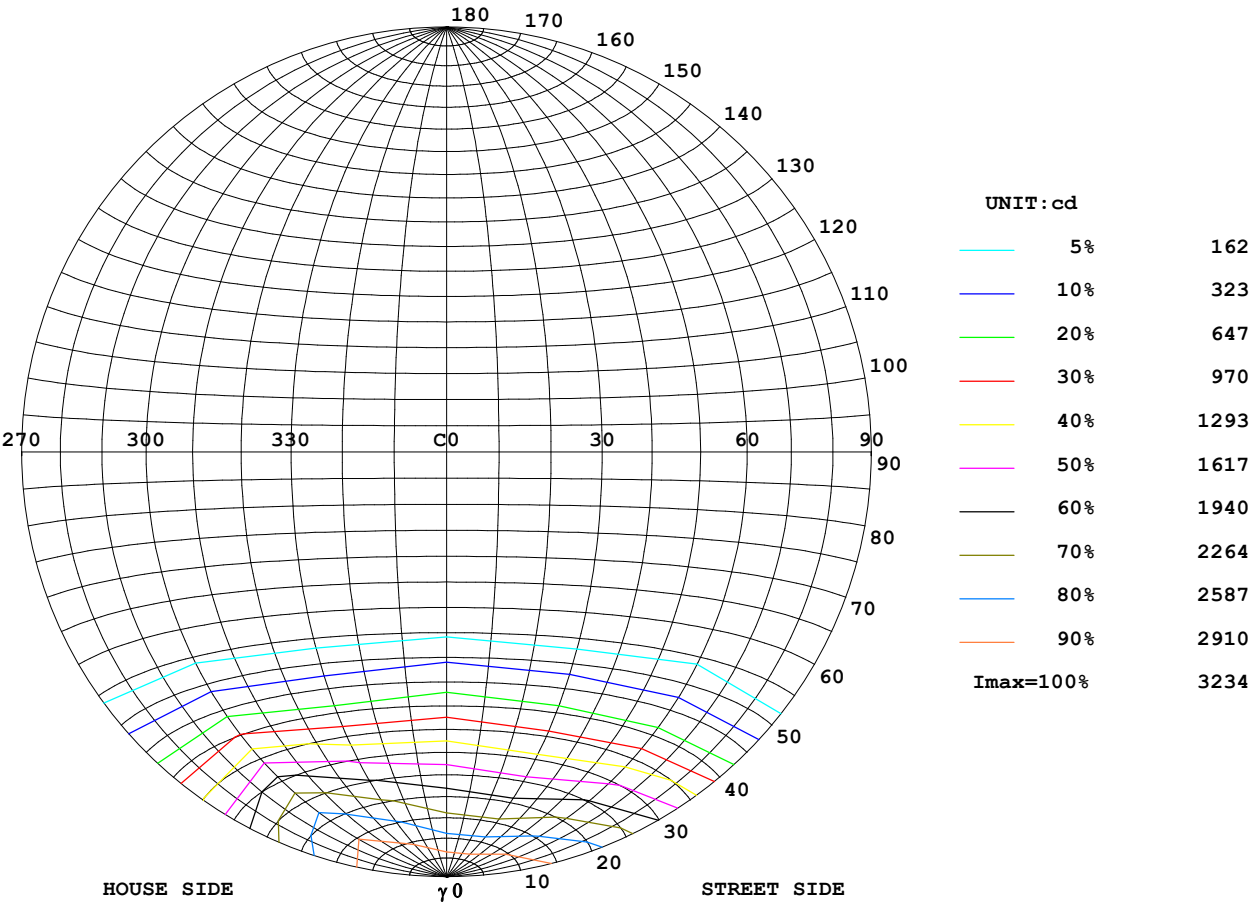
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 05-23-2025

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 11.800 m
 Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K 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

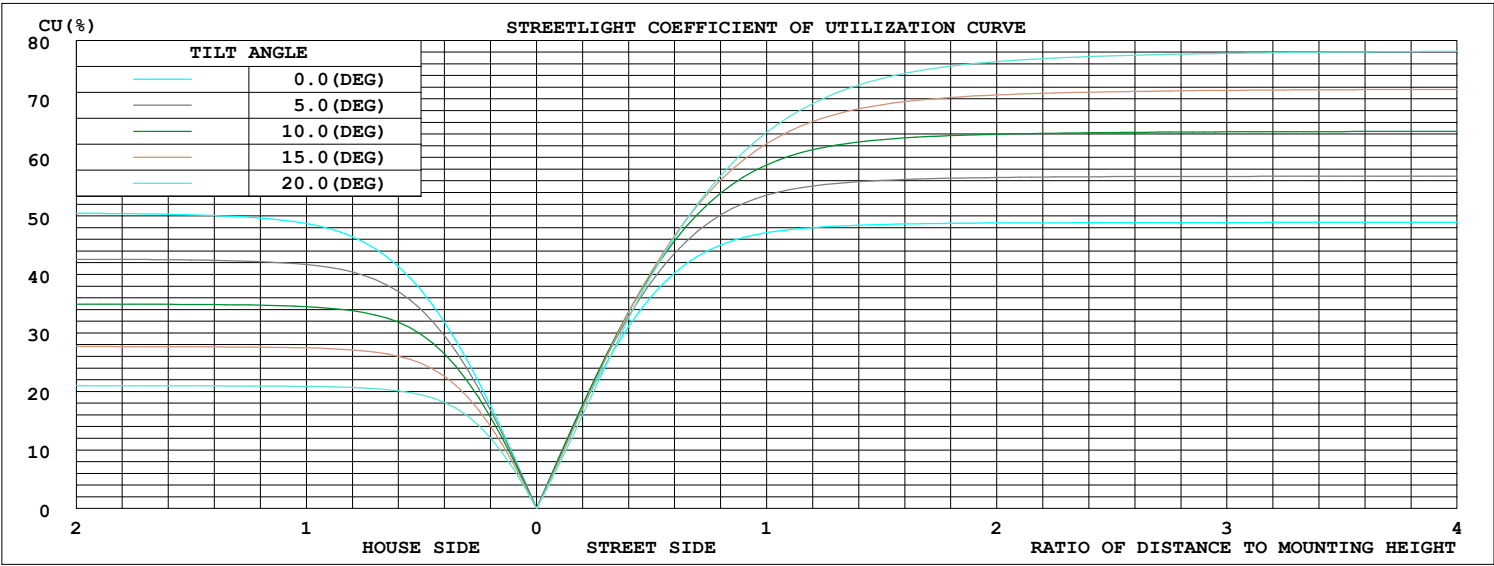
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: L-1200 D-90 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 32.30 lx



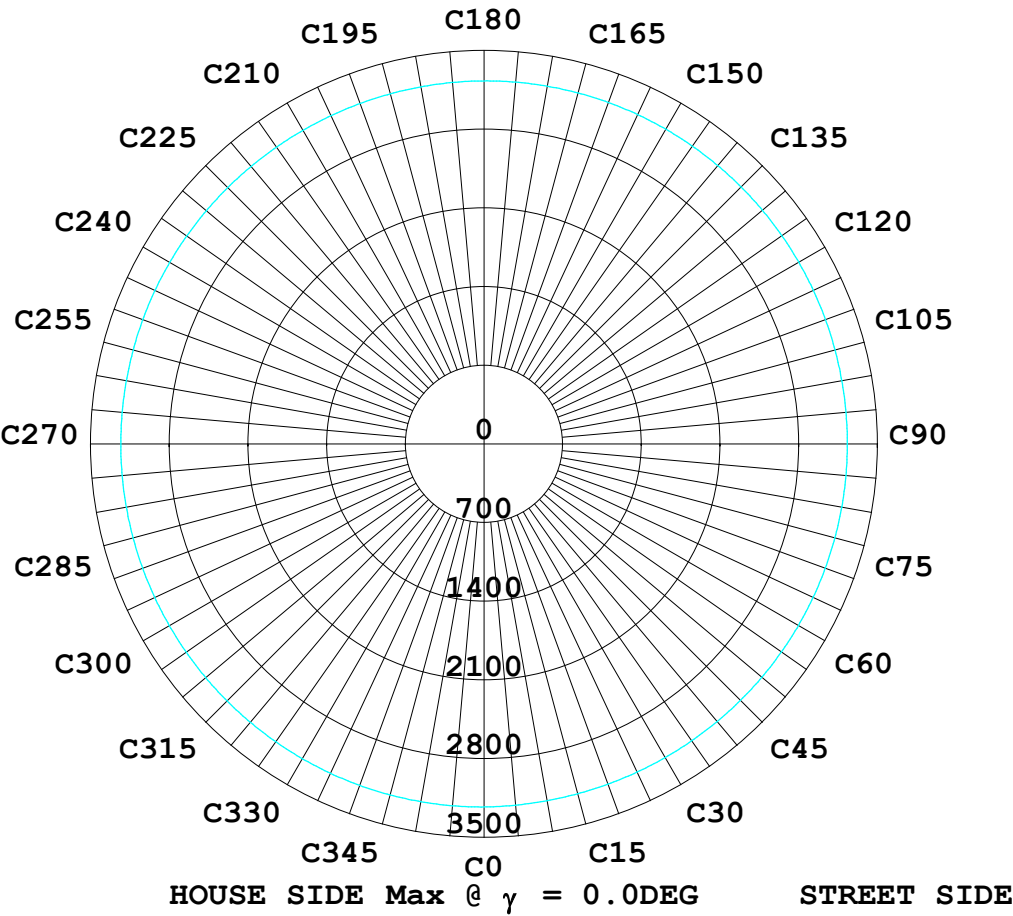
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-23-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.800 m
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K 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:11.800 m
Remarks: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO ZORRO	TYPE: 4000K 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	3230	3222	3230	3232	3233	3234	3230	3222	3230	3232	3233	3234
5.0	3015	3024	3104	3150	3161	3136	3162	3178	3174	3171	3103	3073
10.0	2665	2685	2894	3029	2982	2829	2866	2920	3016	3048	2878	2737
15.0	2325	2322	2621	2890	2750	2462	2502	2586	2774	2900	2611	2393
20.0	2051	2005	2312	2688	2481	2125	2189	2261	2477	2710	2307	2075
25.0	1758	1685	1958	2350	2122	1812	1920	1952	2146	2433	1959	1757
30.0	1450	1365	1565	1932	1706	1498	1605	1628	1742	2040	1556	1448
35.0	1131	1041	1138	1404	1270	1176	1291	1280	1284	1519	1131	1129
40.0	817	731	755	876	864	856	965	948	855	978	741	814
45.0	513	440	405	436	530	611	648	642	487	535	421	528
50.0	278	234	237	195	284	307	358	369	249	240	226	293
55.0	137	107	136	109	159	148	180	196	133	140	122	145
60.0	37.5	33.6	74.3	40.9	87.8	58.3	64.1	89.2	70.5	65.8	60.9	56.6
65.0	17.9	8.49	26.5	6.54	36.0	13.3	9.60	31.7	21.3	20.4	16.0	21.0
70.0	14.3	4.45	14.0	3.48	14.8	4.59	6.12	15.4	3.34	13.5	3.20	13.3
75.0	12.3	4.31	11.6	3.20	12.1	3.89	5.70	11.8	2.64	10.8	2.50	10.7
80.0	11.4	4.59	10.5	3.48	10.4	3.89	5.56	9.74	2.22	9.05	2.08	8.91
85.0	10.8	5.43	10.3	4.17	9.74	4.31	5.56	8.07	1.94	7.79	2.08	7.51
90.0	10.7	7.24	10.4	5.98	9.60	5.70	7.51	6.82	2.64	6.68	2.64	6.40

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:11.800 m
Remarks: 4000K