

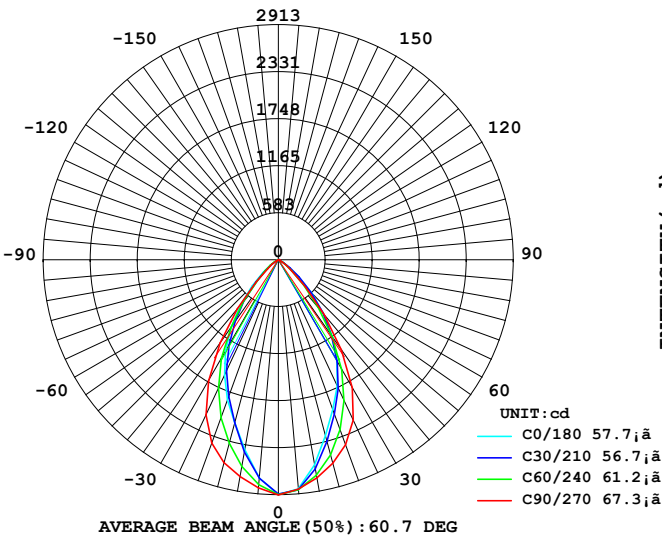
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

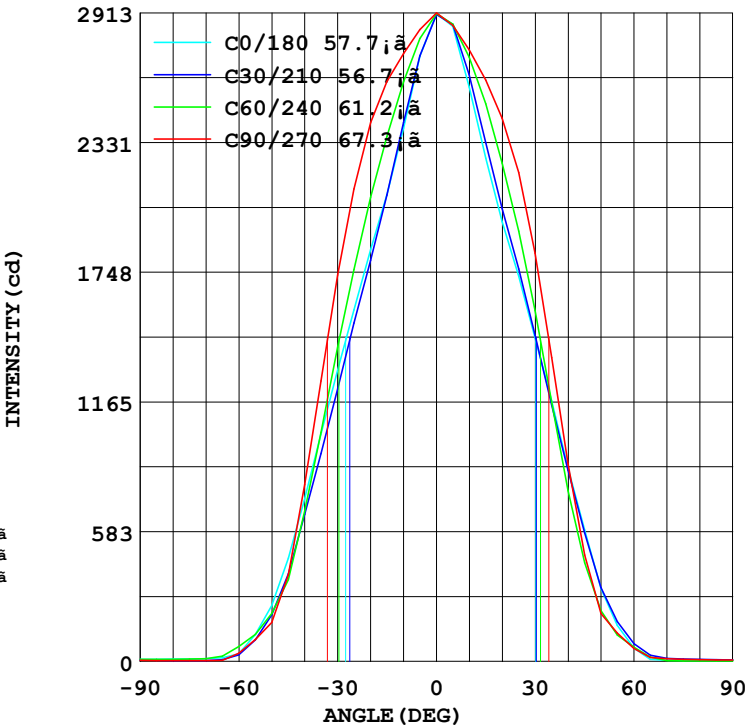
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	2915	S/MH (C0/180)	0.78
MODEL	XTO 25	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.98
NOMINAL POWER (W)	28	TOTAL FLUX (lm)	2963.2	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	105.5	Current (A)	0.118
NOMINAL FLUX (lm)	2963.2	η up (%)	0.0	Power (W)	28.10
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.9	Effictive Flux (lm)	2781.8	EEI	0.138

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 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 CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

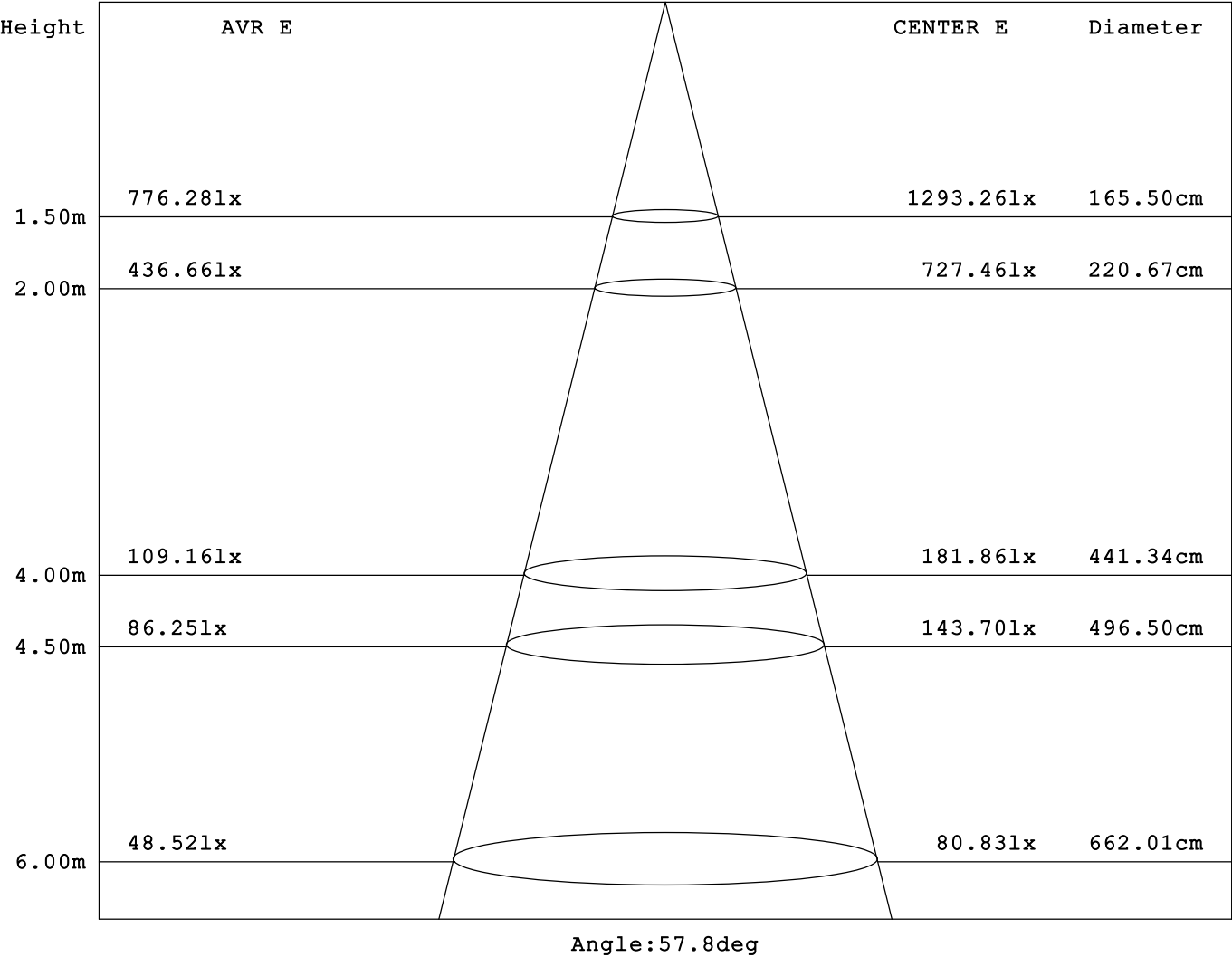
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 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 CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2396	2513	2731	2619	2581	2675	2748	2531	0- 10	261.8	261.8
20.0	1849	1943	2419	2075	1976	2136	2441	1975	10- 20	656.7	918.5
30.0	1308	1318	1736	1444	1452	1521	1833	1353	20- 30	818.1	1737
40.0	730.6	667.9	794.1	774.2	868.7	812.7	886.8	700.4	30- 40	692.8	2429
50.0	251.3	212.1	174.3	266.1	326.8	279.3	214.8	232.9	40- 50	371.5	2801
60.0	34.11	48.54	36.00	65.79	59.58	72.12	58.58	52.99	50- 60	123.9	2925
70.0	12.92	8.341	3.261	8.780	5.644	8.592	12.29	7.400	60- 70	24.18	2949
80.0	10.28	6.961	3.136	6.460	4.892	5.456	8.153	4.954	70- 80	7.499	2957
90.0	9.658	7.902	5.519	6.961	6.773	4.264	6.021	3.951	80- 90	6.569	2963
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:05-26-2025

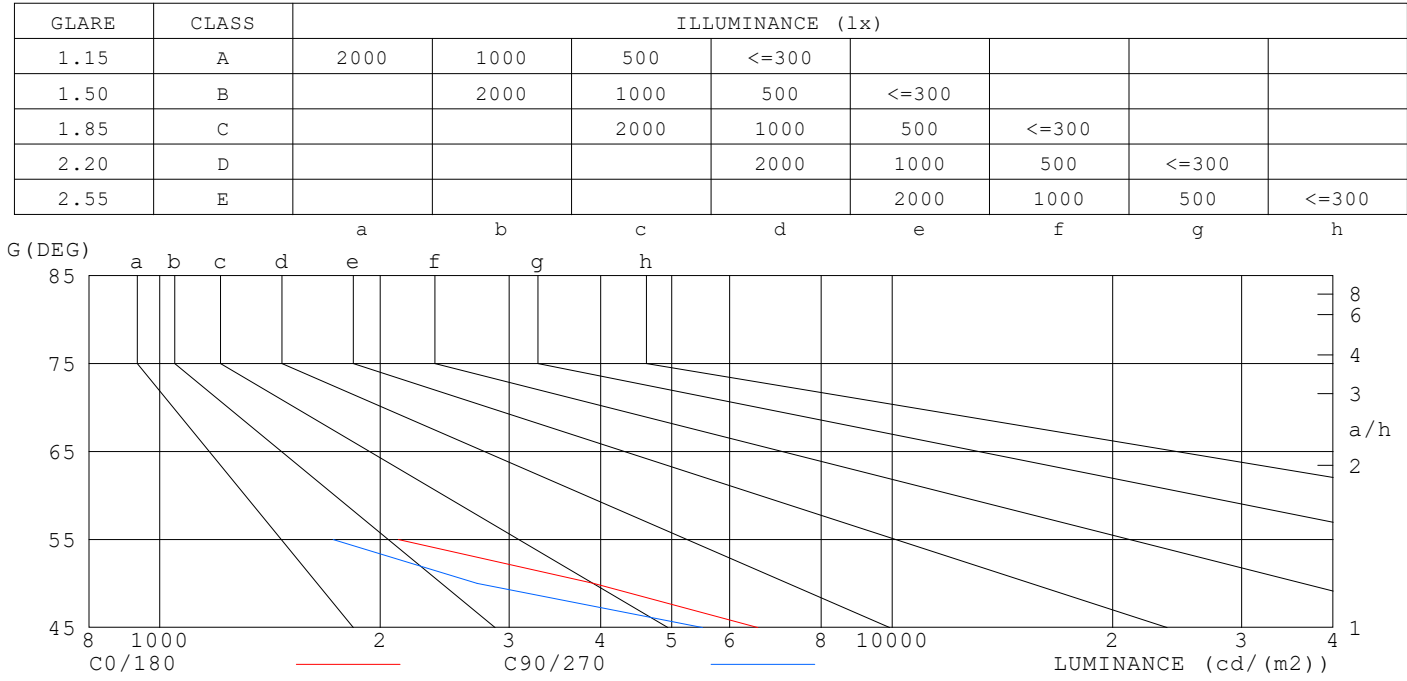
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2

G (DEG)	C0/180	C90/270
85	1137	446
80	592	181
75	431	111
70	378	95
65	380	134
60	682	720
55	2117	1726
50	3911	2713
45	6557	5506

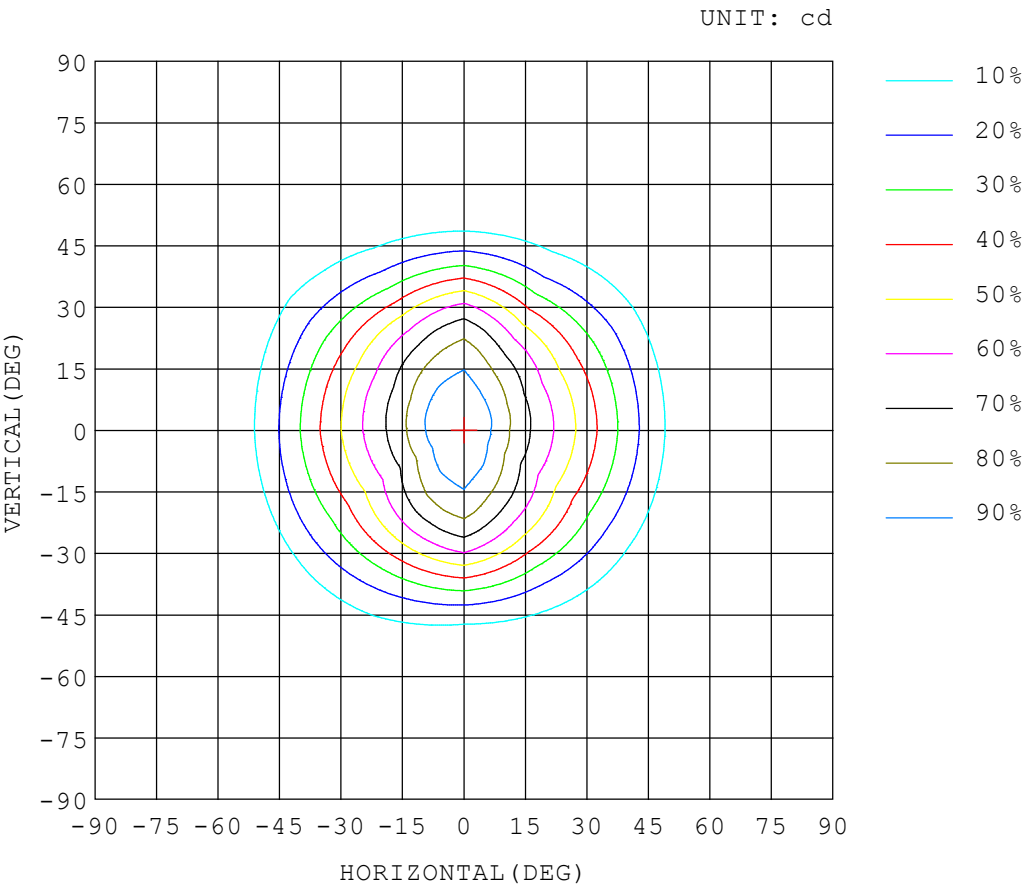
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

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

ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:



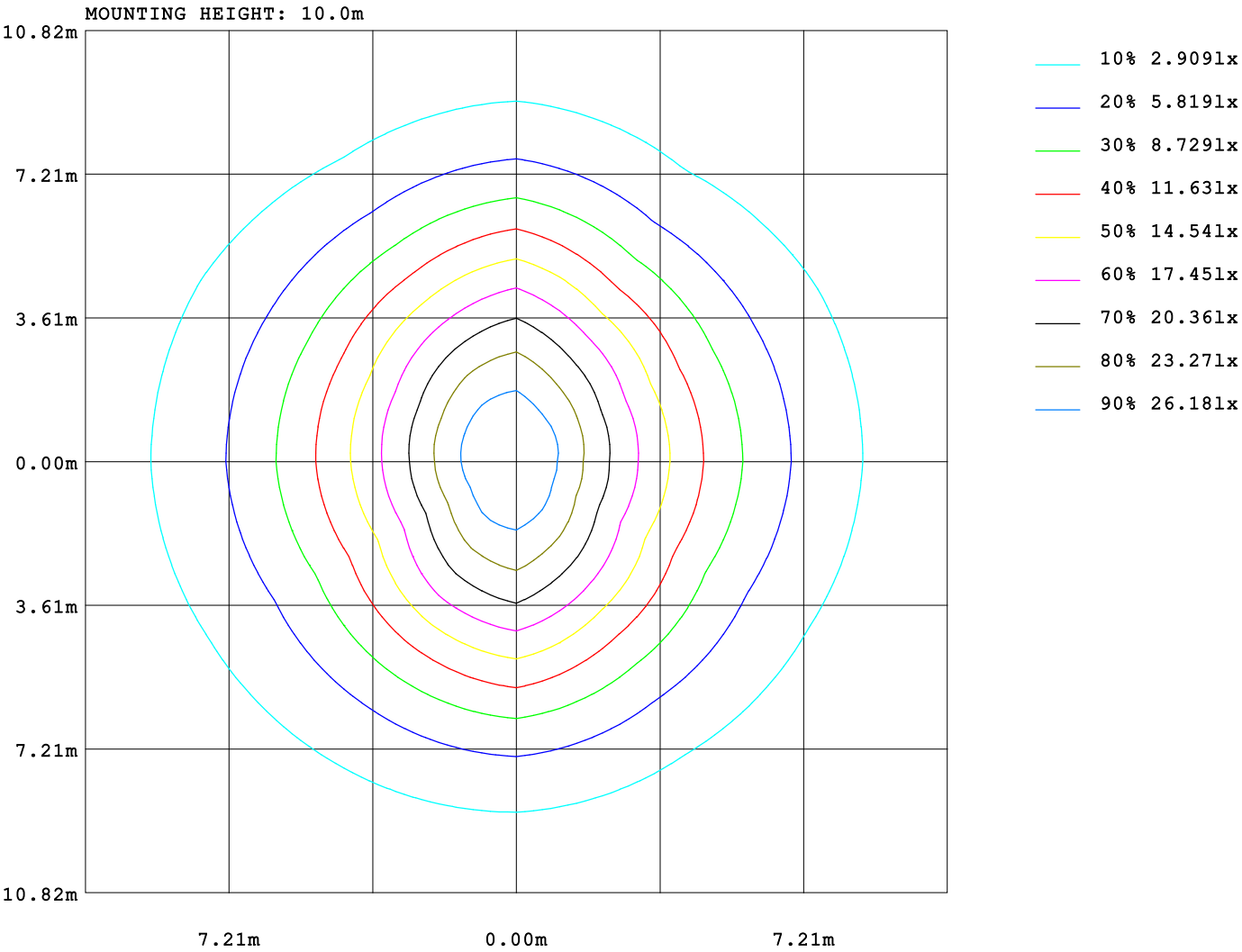
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Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

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NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																				
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																				
NAME: XTO CULTIVATOR										TYPE: 4000K CRI-90					WEIGHT:					
SPECIFICATION: FULHAM 600 MA										DIMENSION: 1200*48*77 MM					SERIAL No.:					

90 80 70 60 50 40 30 <

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

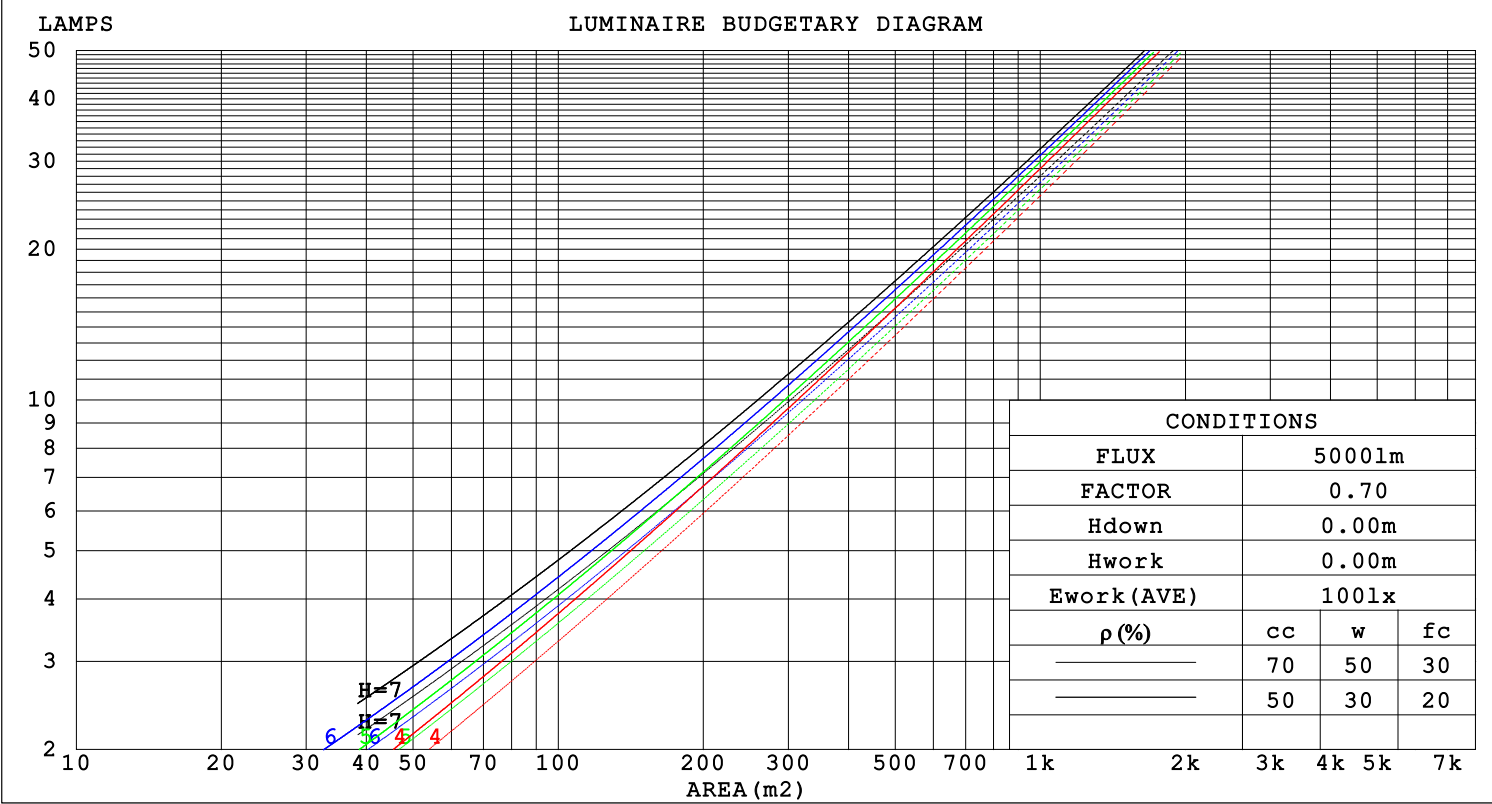
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS															
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019															
NAME: XTO CULTIVATOR								TYPE: 4000K CRI-90				WEIGHT:			
SPECIFICATION: FULHAM 600 MA								DIMENSION: 1200*48*77 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:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS															
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019															
NAME: XTO CULTIVATOR								TYPE: 4000K CRI-90				WEIGHT:			
SPECIFICATION: FULHAM 600 MA								DIMENSION: 1200*48*77 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:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: XTO CULTIVATOR					TYPE: 4000K CRI-90			WEIGHT:			
SPECIFICATION: FULHAM 600 MA					DIMENSION: 1200*48*77 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	13.8	14.9	14.1	15.1	15.2	14.0	15.1	14.3	15.3	15.4
	3H	13.7	14.6	13.9	14.8	15.0	13.8	14.8	14.1	15.0	15.2
	4H	13.6	14.5	13.9	14.7	15.0	13.8	14.7	14.0	14.9	15.1
	6H	13.5	14.4	13.8	14.6	14.9	13.7	14.5	14.0	14.8	15.0
	8H	13.5	14.3	13.8	14.6	14.9	13.6	14.5	13.9	14.7	15.0
	12H	13.5	14.3	13.8	14.6	14.9	13.6	14.4	13.9	14.7	14.9
4H	2H	13.6	14.5	13.9	14.7	15.0	13.8	14.7	14.1	14.9	15.2
	3H	13.4	14.2	13.8	14.5	14.8	13.6	14.4	13.9	14.7	15.0
	4H	13.4	14.1	13.7	14.4	14.7	13.5	14.3	13.9	14.6	14.9
	6H	13.3	13.9	13.7	14.3	14.6	13.5	14.1	13.8	14.4	14.8
	8H	13.3	13.9	13.7	14.3	14.6	13.4	14.0	13.8	14.4	14.7
	12H	13.4	13.9	13.8	14.3	14.7	13.4	13.9	13.8	14.3	14.7
8H	4H	13.2	13.8	13.6	14.2	14.5	13.4	14.0	13.8	14.3	14.7
	6H	13.2	13.7	13.6	14.1	14.5	13.4	13.8	13.8	14.2	14.7
	8H	13.2	13.6	13.7	14.0	14.5	13.4	13.8	13.8	14.2	14.6
	12H	13.3	13.6	13.8	14.1	14.6	13.4	13.7	13.8	14.2	14.6
12H	4H	13.2	13.7	13.6	14.1	14.5	13.4	13.9	13.8	14.3	14.7
	6H	13.2	13.6	13.6	14.0	14.4	13.3	13.7	13.8	14.2	14.6
	8H	13.2	13.5	13.6	14.0	14.4	13.3	13.7	13.8	14.1	14.6
Variations with the observer position at spacings:											
S = 1.0H		+ 2.6 / - 8.2					+ 3.1 / - 8.0				
1.5H		+ 3.7 / - 7.9					+ 4.7 / - 4.2				
2.0H		+ 6.5 / - 7.9					+ 5.7 / - 8.2				

CIE Pub.117 Corrected 2963 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.8)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Remarks: 4000K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 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		

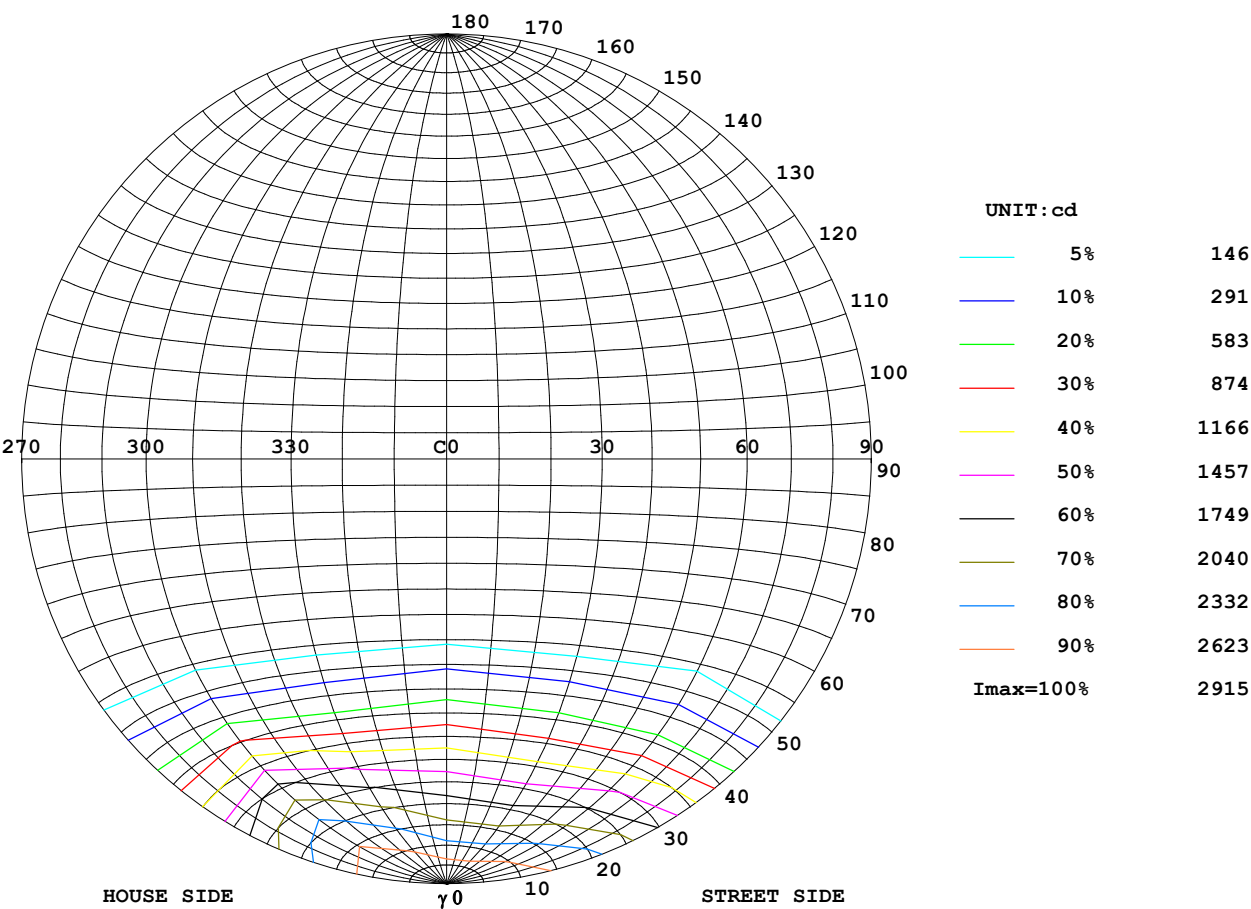
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 Temperature: 25.3 DEG
 Operators:
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Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

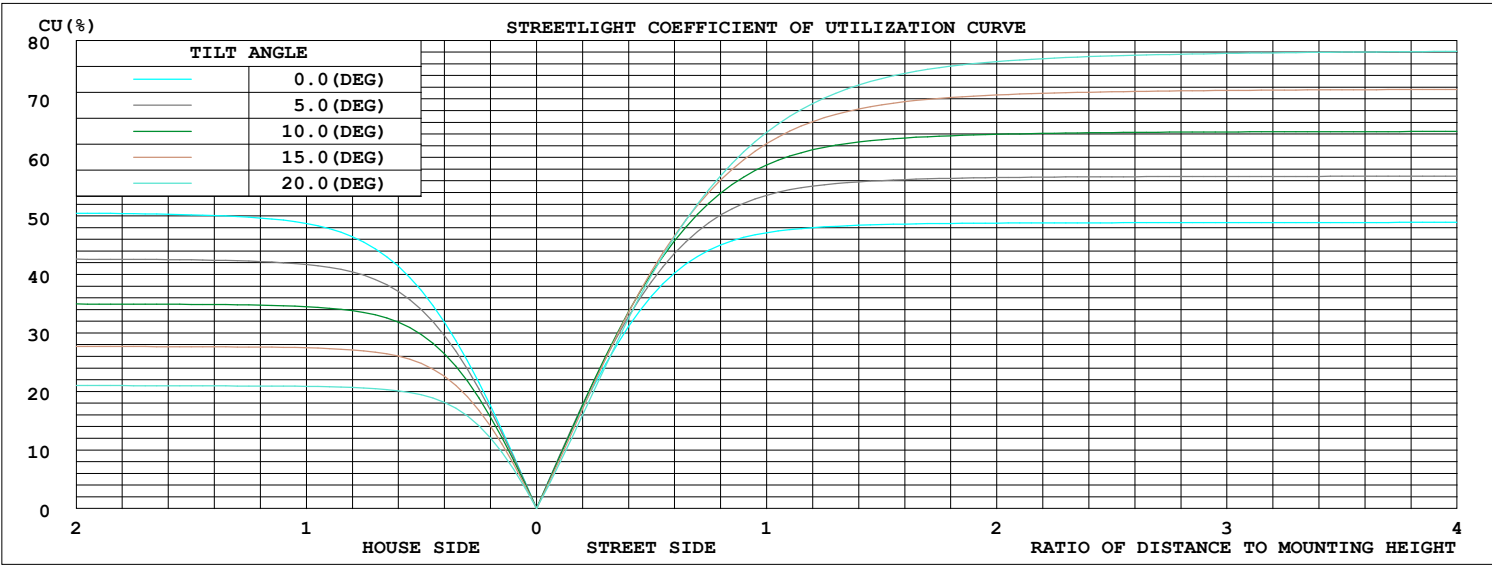
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Remarks: 4000K

ISOLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 29.10 lx



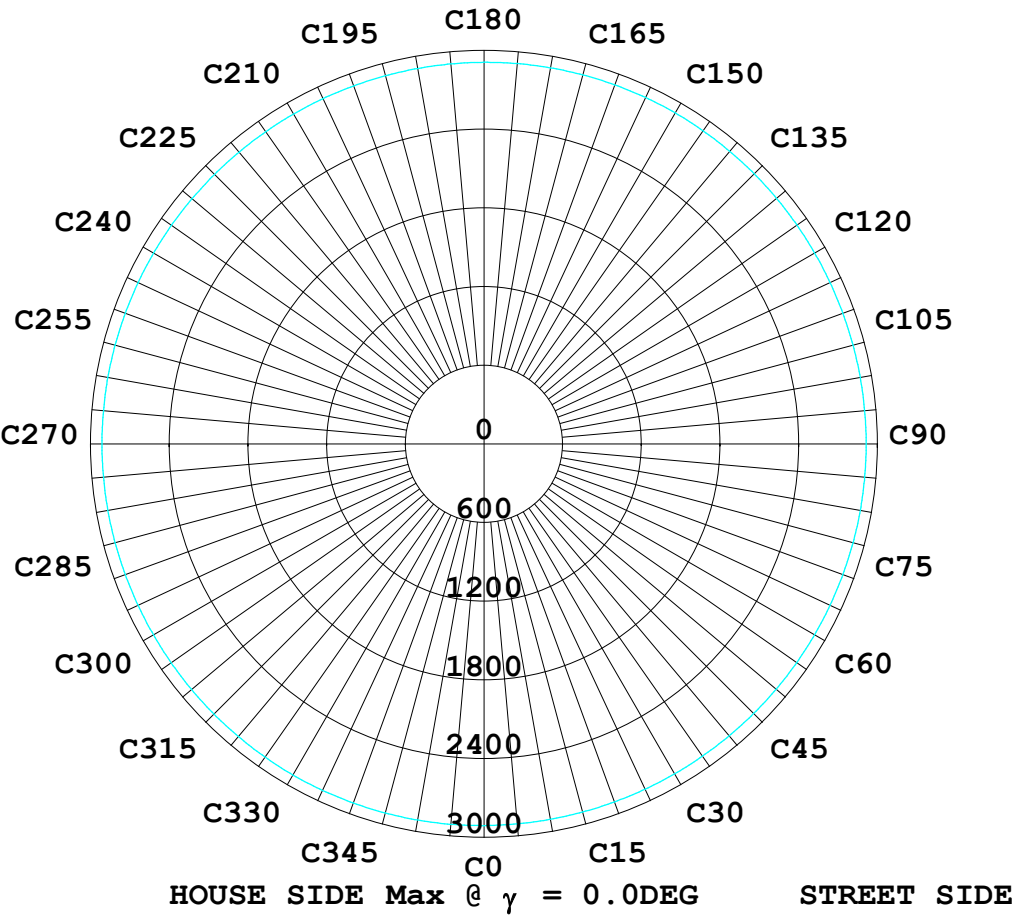
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Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 m
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-26-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.200 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 CULTIVATOR	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*48*77 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2910	2905	2910	2913	2912	2915	2910	2905	2910	2913	2912	2915
5.0	2718	2720	2798	2838	2849	2824	2853	2862	2862	2856	2800	2766
10.0	2396	2422	2604	2731	2686	2552	2581	2636	2715	2748	2591	2470
15.0	2096	2095	2357	2605	2480	2222	2260	2329	2505	2610	2355	2152
20.0	1849	1802	2085	2419	2238	1911	1976	2035	2238	2441	2084	1866
25.0	1580	1520	1760	2122	1907	1636	1729	1763	1932	2196	1762	1585
30.0	1308	1225	1412	1736	1542	1346	1452	1466	1576	1833	1406	1301
35.0	1021	934	1028	1259	1149	1057	1169	1151	1164	1365	1025	1014
40.0	731	661	675	794	774	775	869	859	767	887	665	736
45.0	464	394	367	389	480	547	589	576	443	477	382	472
50.0	251	209	215	174	258	274	327	332	227	215	205	261
55.0	121	97.3	122	98.9	142	135	161	178	119	127	109	132
60.0	34.1	29.7	67.3	36.0	79.7	51.8	59.5	79.9	64.3	58.5	55.6	50.3
65.0	16.0	7.52	24.2	5.64	32.6	11.9	8.78	28.3	19.9	18.3	14.6	18.6
70.0	12.9	4.01	12.6	3.26	13.2	4.26	5.64	14.0	3.13	12.2	2.88	11.9
75.0	11.1	3.88	10.5	2.88	10.9	3.63	5.26	10.6	2.50	9.78	2.13	9.65
80.0	10.2	4.26	9.65	3.13	9.40	3.51	4.89	8.90	2.00	8.15	1.88	8.02
85.0	9.90	4.89	9.15	3.88	8.90	3.88	4.89	7.40	1.75	7.15	1.75	6.77
90.0	9.65	6.39	9.40	5.51	8.65	5.26	6.77	6.14	2.38	6.02	2.25	5.64

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Temperature:25.3DEG
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