

LUMINAIRE PHOTOMETRIC TEST REPORT

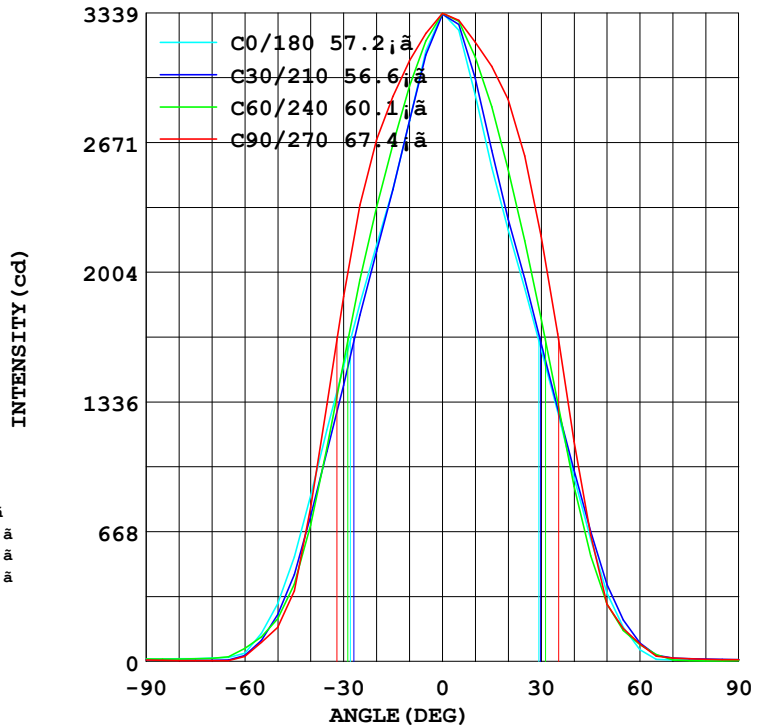
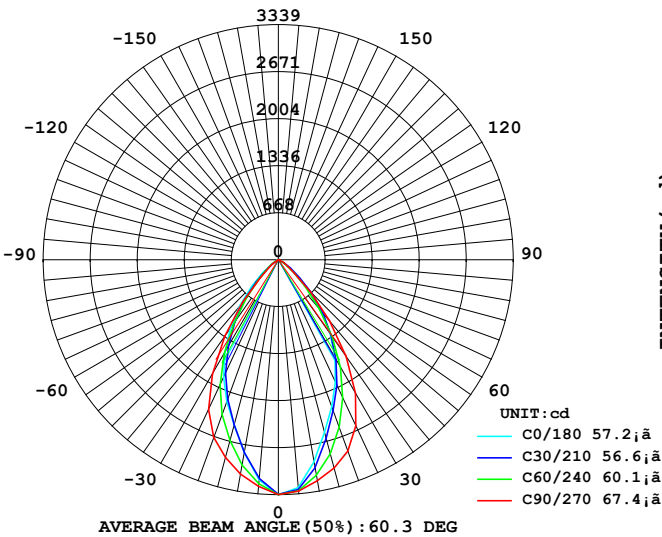
Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	3340	S/MH (C0/180)	0.78
MODEL	XTO EDGE	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.95
NOMINAL POWER (W)	28	TOTAL FLUX (lm)	3384.1	Voltage (V)	219.3
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	118.5	Current (A)	0.130
NOMINAL FLUX (lm)	3384.2	η up (%)	0.0	Power (W)	28.54
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.4	Effective Flux (lm)	3173.6	E EI	0.123

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

Color Temperature Data List

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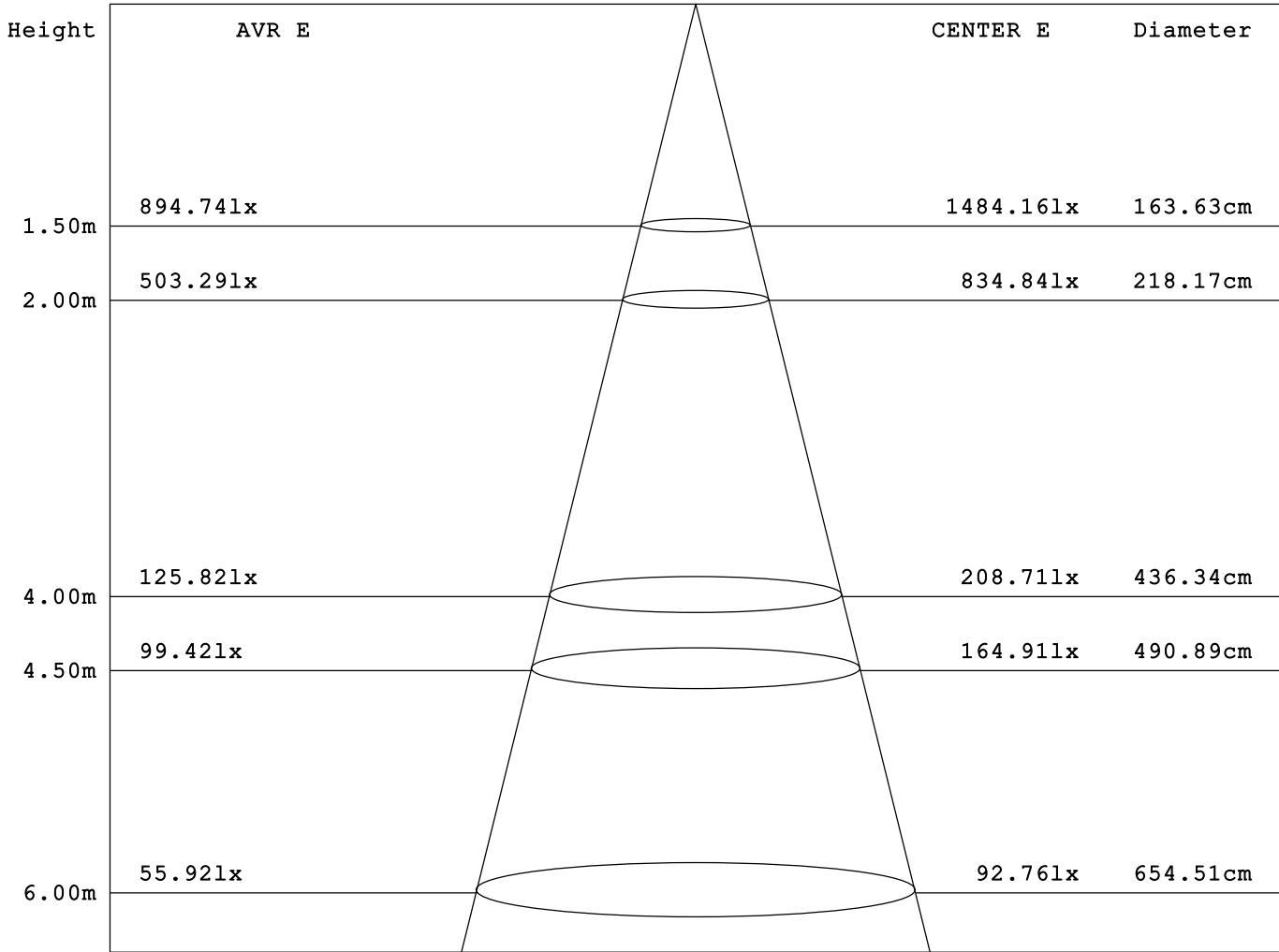
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AVERAGE AND CENTER E Figure

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NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:



Angle:57.2deg

Test System:HOPOO HPG1800
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ZONAL FLUX DIAGRAM

Report number:

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NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2784	2874	3093	2973	2918	3058	3189	2951	0- 10	300.3	300.3
20.0	2144	2225	2686	2339	2222	2405	2893	2333	10- 20	752.0	1052
30.0	1519	1482	1879	1582	1608	1703	2191	1629	20- 30	933.7	1986
40.0	853.4	725.9	793.0	805.7	948.0	943.1	1133	867.5	30- 40	786.9	2773
50.0	297.5	230.3	174.8	268.7	351.5	346.2	294.4	298.0	40- 50	420.0	3193
60.0	42.33	48.74	25.92	63.93	59.32	90.86	89.85	73.51	50- 60	143.2	3336
70.0	16.55	10.29	4.176	10.44	7.776	12.52	16.70	10.51	60- 70	28.94	3365
80.0	13.24	8.927	4.320	8.424	6.912	7.488	11.37	7.128	70- 80	9.972	3375
90.0	12.67	10.58	7.344	9.216	8.927	6.120	8.351	5.904	80- 90	8.922	3384
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	

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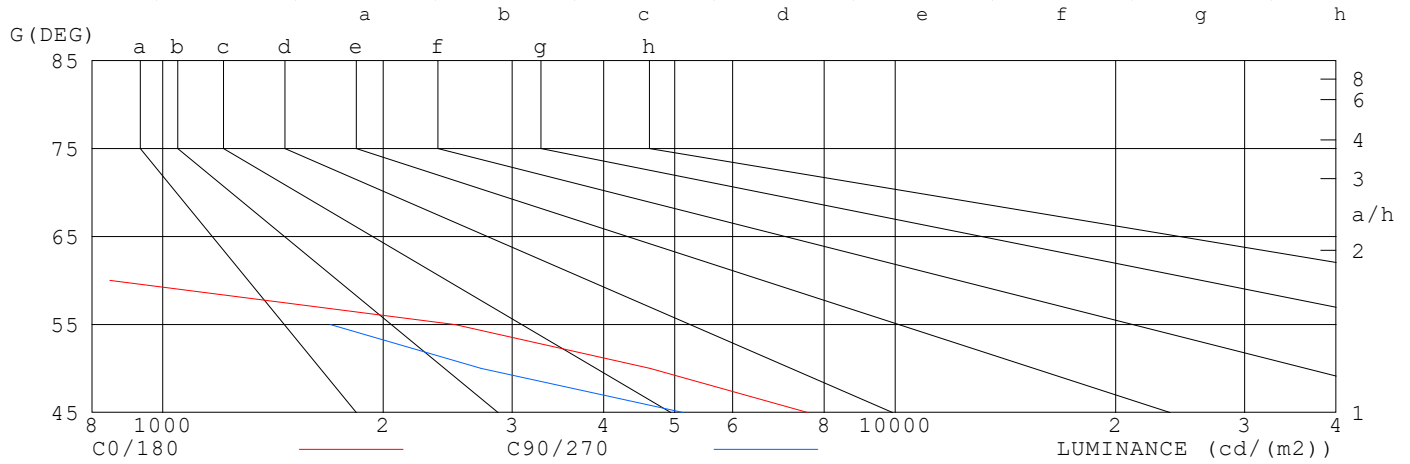
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
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LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
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	1487	595
80	763	249
75	556	156
70	484	122
65	480	116
60	847	518
55	2506	1695
50	4628	2720
45	7600	5140

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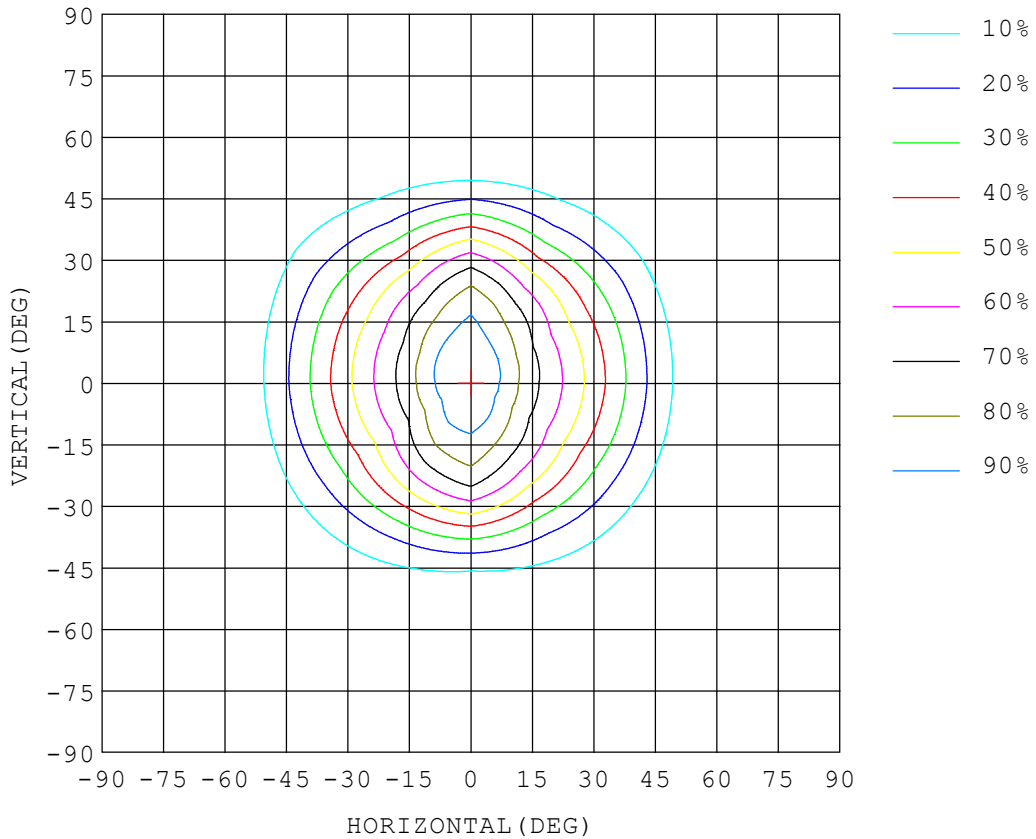
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ISOCANDELA DIAGRAM

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UNIT: cd



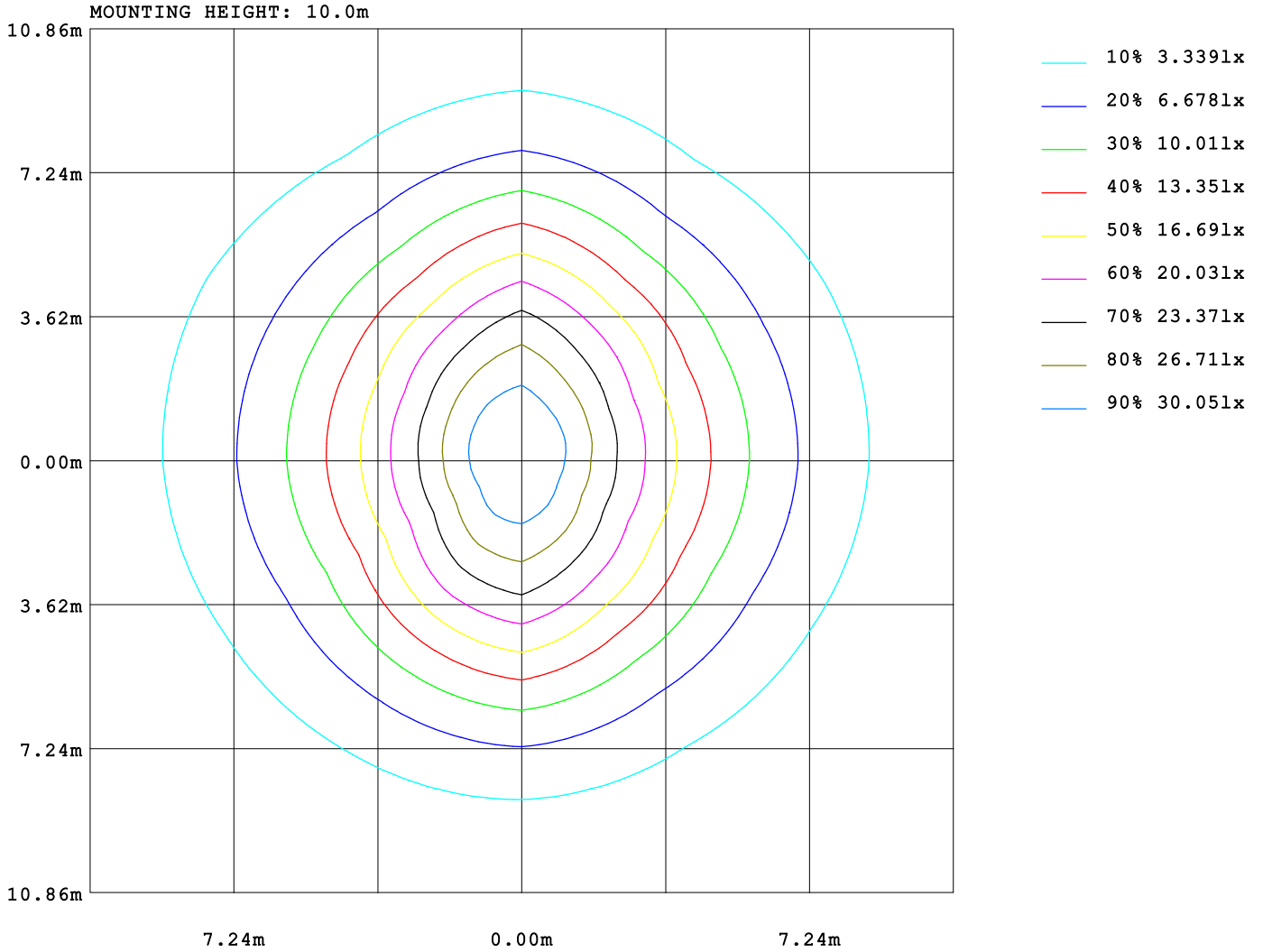
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ISOLUX DIAGRAM

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AREA LUMINOUS FLUX

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SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90		
90	0.02	0.07	0.12	0.15	0.14	0.11	0.12	0.19	0.26	0.26	0.19	0.12	0.11	0.13	0.14	0.12	0.08	0.03	2.36	0.00	
80	0.02	0.07	0.13	0.18	0.17	0.13	0.14	0.25	0.37	0.36	0.25	0.14	0.13	0.16	0.17	0.14	0.09	0.03	2.92	0.00	
70	0.02	0.07	0.14	0.22	0.26	0.37	0.65	0.99	1.20	1.14	0.85	0.48	0.28	0.23	0.21	0.15	0.09	0.03	7.40	0.00	
60	0.02	0.07	0.15	0.31	0.72	1.74	3.02	4.38	5.31	5.20	4.09	2.64	1.41	0.57	0.29	0.17	0.10	0.03	30.2	0.00	
50	0.02	0.07	0.17	0.57	2.22	5.19	8.97	14.1	19.2	18.9	13.4	8.12	4.39	1.75	0.49	0.20	0.10	0.03	98.0	68.6	
40	0.02	0.07	0.19	1.19	5.07	12.1	21.7	33.7	46.5	46.0	32.5	20.0	10.4	4.08	0.95	0.23	0.11	0.03	235	222	
30	0.02	0.07	0.24	2.10	8.66	21.1	36.6	54.1	71.7	71.2	52.7	34.4	18.7	7.21	1.65	0.28	0.11	0.03	381	372	
20	0.02	0.06	0.30	2.95	11.9	27.9	47.1	67.9	86.9	85.6	65.6	44.4	25.5	10.1	2.37	0.32	0.11	0.03	480	472	
10	0.02	0.06	0.32	3.40	13.7	31.5	52.3	74.5	95.4	93.0	71.2	49.8	29.2	11.9	2.78	0.34	0.12	0.03	530	523	
0	0.02	0.06	0.29	3.24	13.1	30.6	51.0	72.6	93.5	91.2	69.9	49.0	28.5	11.4	2.66	0.31	0.11	0.03	518	511	
-10	0.02	0.05	0.23	2.54	10.4	25.3	43.5	65.6	84.1	81.5	62.4	41.7	23.3	9.04	2.03	0.26	0.10	0.03	453	444	
-20	0.02	0.05	0.15	1.58	6.83	17.4	32.9	51.3	66.2	64.4	47.6	30.5	15.6	5.75	1.19	0.20	0.10	0.03	342	332	
-30	0.02	0.05	0.10	0.73	3.54	9.29	18.1	29.2	38.1	37.1	26.8	16.4	8.14	2.80	0.52	0.15	0.09	0.03	191	177	
-40	0.02	0.05	0.08	0.25	1.39	3.97	7.22	10.3	12.6	12.3	9.76	6.48	3.31	1.00	0.19	0.12	0.08	0.03	69.3	34.6	
-50	0.02	0.05	0.07	0.11	0.40	1.29	2.55	3.19	3.22	3.11	2.92	2.23	1.05	0.31	0.11	0.10	0.08	0.03	20.8	0.00	
-60	0.02	0.05	0.07	0.10	0.19	0.37	0.59	0.60	0.44	0.42	0.55	0.55	0.35	0.19	0.11	0.10	0.08	0.03	4.81	0.00	
-70	0.02	0.05	0.07	0.11	0.18	0.28	0.32	0.26	0.17	0.17	0.26	0.32	0.28	0.19	0.12	0.10	0.08	0.03	3.02	0.00	
-80	0.02	0.06	0.09	0.12	0.19	0.26	0.29	0.25	0.20	0.20	0.26	0.30	0.28	0.21	0.15	0.11	0.08	0.03	3.10	0.00	
-90	0.02	0.06	0.09	0.12	0.19	0.26	0.29	0.25	0.20	0.20	0.26	0.30	0.28	0.21	0.15	0.11	0.08	0.03	3.10	0.00	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	0.36	1.07	2.89	19.8	79.2	189	328	484	626	613	462	308	171	67.2	16.1	3.38	1.71	0.59	3384		
Φ a	0.00	0.00	0.00	0.32	58.9	172	311	468	610	598	446	292	154	44.8	0.00	0.00	0.00	0.00		3174	

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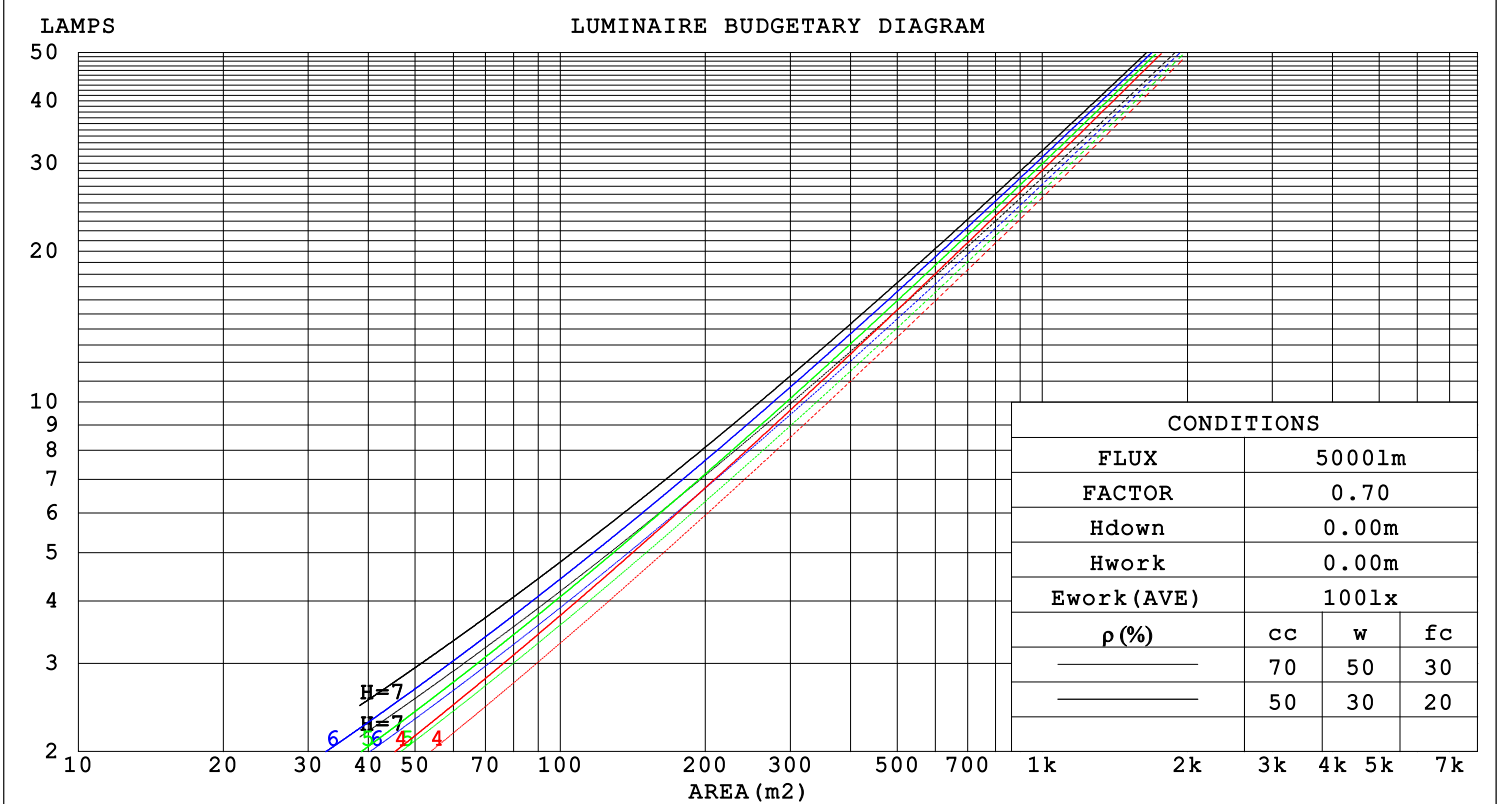
Test Set: 5.0deg/s C-Gamma (TYPE C)
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

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NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	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	1.19	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	.54	.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



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WEC AND CCEC

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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	.197	.112	.035	.190	.108	.034	.177	.102	.032	.165	.095	.031	.155	.090	.029	
2.0	.189	.104	.032	.184	.101	.031	.173	.096	.030	.163	.091	.029	.154	.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	.153	.082	.025	.146	.079	.024	
5.0	.164	.084	.024	.160	.082	.024	.153	.080	.024	.147	.077	.023	.141	.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	

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	.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	

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Uncorrected UGR Table

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NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
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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	14.3	15.4	14.5	15.6	15.7	13.8	14.9	14.1	15.1	15.2
	3H	14.2	15.1	14.4	15.3	15.5	13.7	14.6	13.9	14.8	15.0
	4H	14.1	15.0	14.4	15.2	15.5	13.6	14.5	13.9	14.7	15.0
	6H	14.0	14.9	14.3	15.1	15.4	13.5	14.4	13.8	14.6	14.9
	8H	14.0	14.9	14.3	15.1	15.4	13.5	14.3	13.8	14.5	14.8
	12H	14.1	14.8	14.4	15.1	15.4	13.4	14.2	13.8	14.5	14.8
4H	2H	14.1	15.0	14.4	15.2	15.5	13.6	14.5	13.9	14.7	15.0
	3H	13.9	14.7	14.2	15.0	15.3	13.4	14.2	13.8	14.5	14.8
	4H	13.9	14.6	14.2	14.9	15.2	13.4	14.1	13.7	14.4	14.7
	6H	13.8	14.5	14.2	14.8	15.1	13.3	13.9	13.7	14.3	14.6
	8H	13.8	14.4	14.2	14.8	15.1	13.3	13.9	13.7	14.2	14.6
	12H	13.9	14.4	14.3	14.8	15.2	13.3	13.8	13.7	14.2	14.6
8H	4H	13.7	14.3	14.1	14.7	15.0	13.2	13.8	13.6	14.2	14.6
	6H	13.7	14.2	14.1	14.6	15.0	13.2	13.7	13.7	14.1	14.5
	8H	13.7	14.2	14.2	14.6	15.0	13.2	13.7	13.7	14.1	14.5
	12H	13.9	14.2	14.3	14.7	15.1	13.3	13.6	13.8	14.1	14.6
12H	4H	13.7	14.2	14.1	14.6	15.0	13.2	13.7	13.6	14.1	14.5
	6H	13.7	14.1	14.1	14.5	15.0	13.2	13.6	13.6	14.0	14.5
	8H	13.7	14.1	14.2	14.5	15.0	13.2	13.6	13.7	14.0	14.5

Variations with the observer position at spacings:		
S = 1.0H	+ 2.7 / - 7.5	+ 3.0 / - 8.0
1.5H	+ 3.8 / - 8.0	+ 4.5 / - 4.2
2.0H	+ 6.5 / - 7.3	+ 5.1 / - 6.7

CIE Pub.117 Corrected 3384 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.2)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 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	78	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	101	96	93	99	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	100	107	103	100	103	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	102	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			

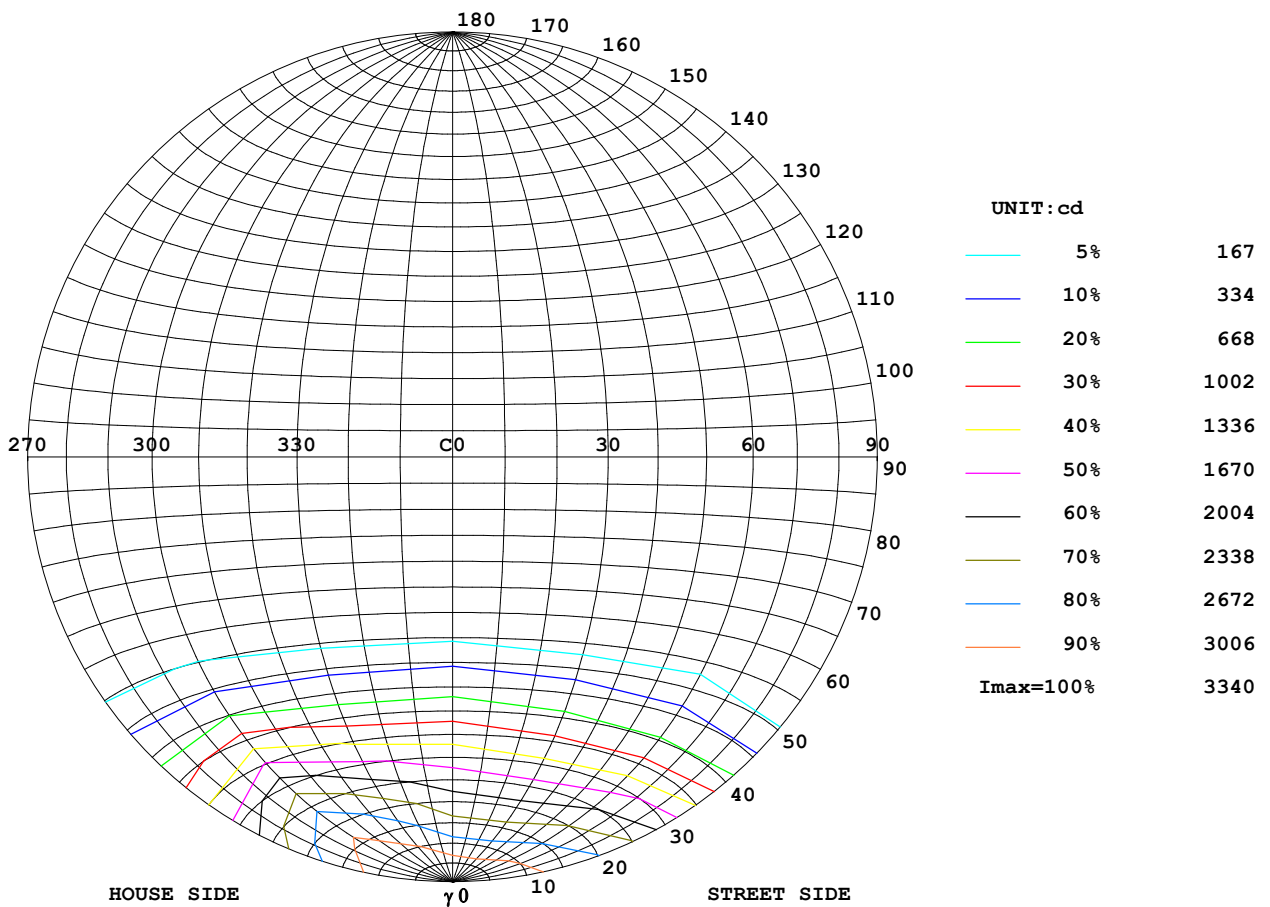
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

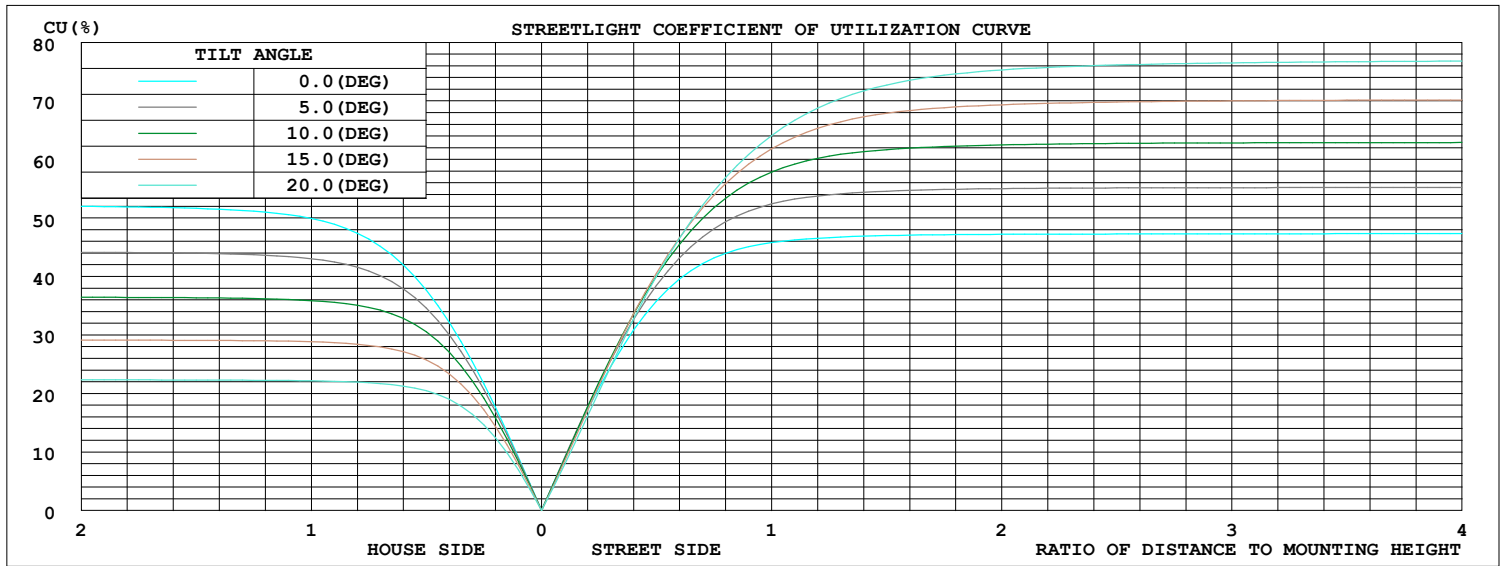
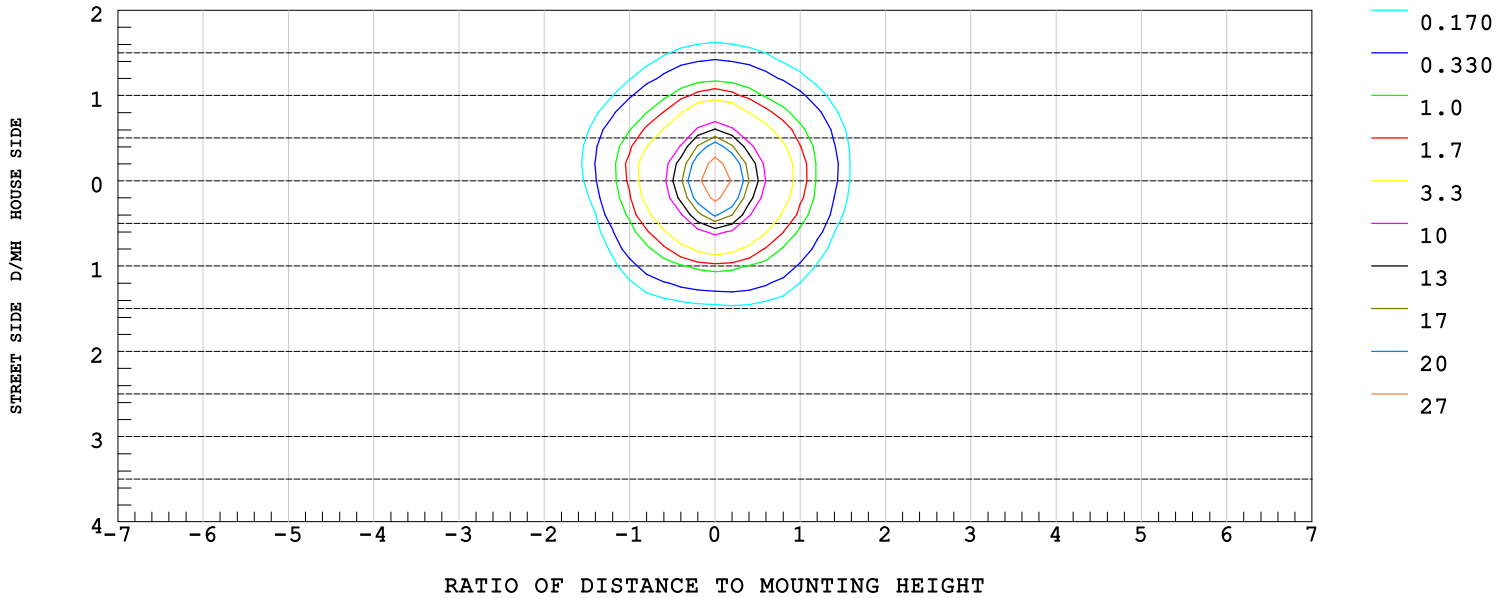
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 33.39 lx



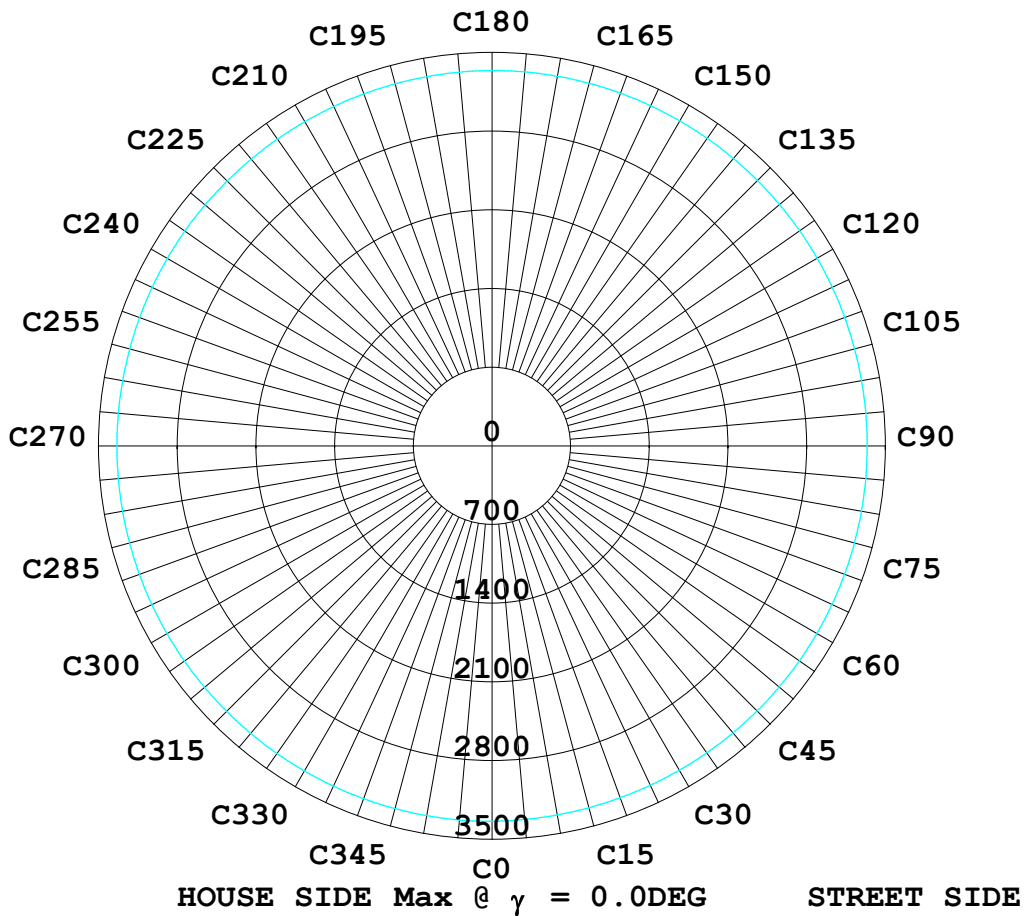
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-22-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTO EDGE 35	TYPE: 4000K CRI90	WEIGHT:
SPECIFICATION: FULHAM-600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	3339	3332	3337	3337	3340	3339	3339	3332	3337	3337	3340	3339
5.0	3142	3123	3196	3234	3244	3205	3250	3279	3296	3301	3245	3205
10.0	2784	2786	2962	3093	3055	2892	2918	3004	3112	3189	3020	2881
15.0	2430	2429	2661	2908	2811	2522	2543	2631	2855	3064	2765	2512
20.0	2144	2110	2339	2686	2510	2168	2222	2278	2532	2893	2494	2171
25.0	1843	1784	1966	2350	2124	1829	1920	1969	2166	2602	2133	1861
30.0	1519	1423	1542	1879	1682	1483	1608	1639	1767	2191	1723	1534
35.0	1193	1082	1101	1324	1219	1152	1286	1302	1333	1685	1280	1204
40.0	853	749	703	793	788	823	948	985	902	1133	852	883
45.0	537	448	399	363	422	512	630	670	545	652	509	574
50.0	298	241	219	175	248	290	352	397	296	294	270	326
55.0	144	108	125	97.2	142	141	176	213	159	169	142	169
60.0	42.3	30.9	66.5	25.9	76.7	51.1	59.3	95.1	86.5	89.8	74.7	72.2
65.0	20.3	7.92	24.1	4.89	26.9	12.3	10.5	32.8	35.2	27.9	23.7	27.2
70.0	16.5	5.18	15.4	4.17	15.6	5.18	7.77	18.0	7.05	16.7	4.60	16.4
75.0	14.4	5.18	13.2	4.03	13.2	4.75	7.05	14.2	3.60	13.5	3.74	13.1
80.0	13.2	5.76	12.0	4.32	11.9	4.89	6.91	11.8	3.16	11.3	3.16	11.0
85.0	12.9	6.76	12.0	5.18	11.2	5.47	6.76	10.0	3.02	9.79	3.02	9.50
90.0	12.6	8.92	12.2	7.34	11.2	7.20	8.92	8.49	3.74	8.35	3.74	8.06

Test System:HOPOO HPG1800
 Temperature:25.3DEG
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Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:12.000 m
 Remarks: 4000K