

LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: DIVINITY

Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019

NAME: VIRAJ 45 LENS

TYPE: .5W 4K CRI 90

WEIGHT:

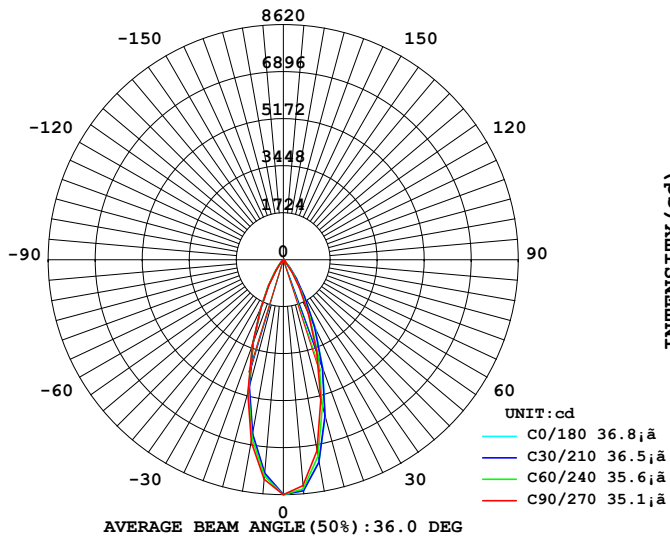
SPECIFICATION: FULHAM 600 MA

DIMENSION: 1200*46*70 MM

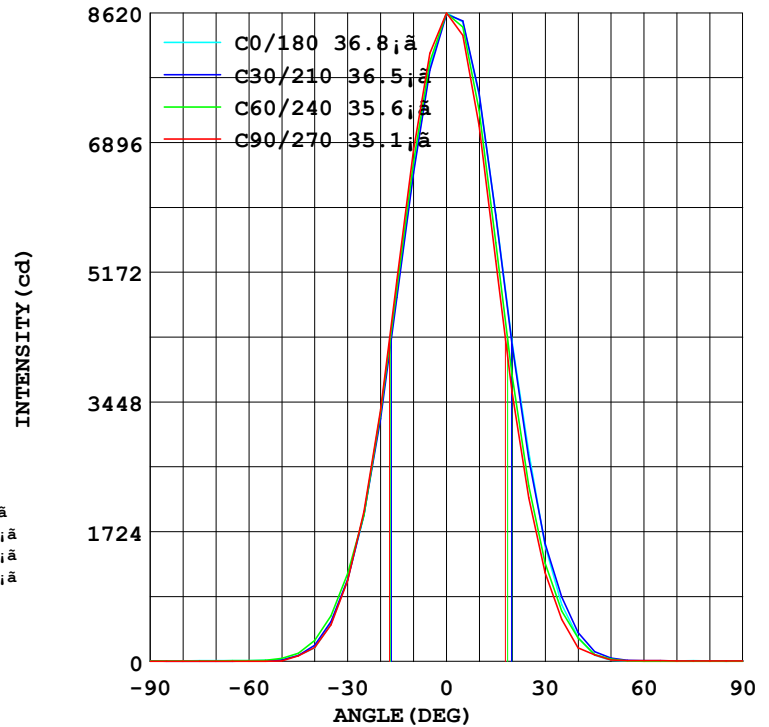
SERIAL No.:

DATA OF LAMP		Imax (cd)	8635	S/MH (C0/180)	0.55
MODEL	VIRAJ 45 LENS	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.56
NOMINAL POWER (W)	30	TOTAL FLUX (lm)	3810.6	Voltage (V)	219.5
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	125.6	Current (A)	0.139
NOMINAL FLUX (lm)	3810.6	η up (%)	0.0	Power (W)	30.33
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.987
TEST VOLTAGE (V)	219.5	Effective Flux (lm)	3459.3	EEI	0.119

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 03-10-2025

Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.000 m
Remarks: 4000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 4K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

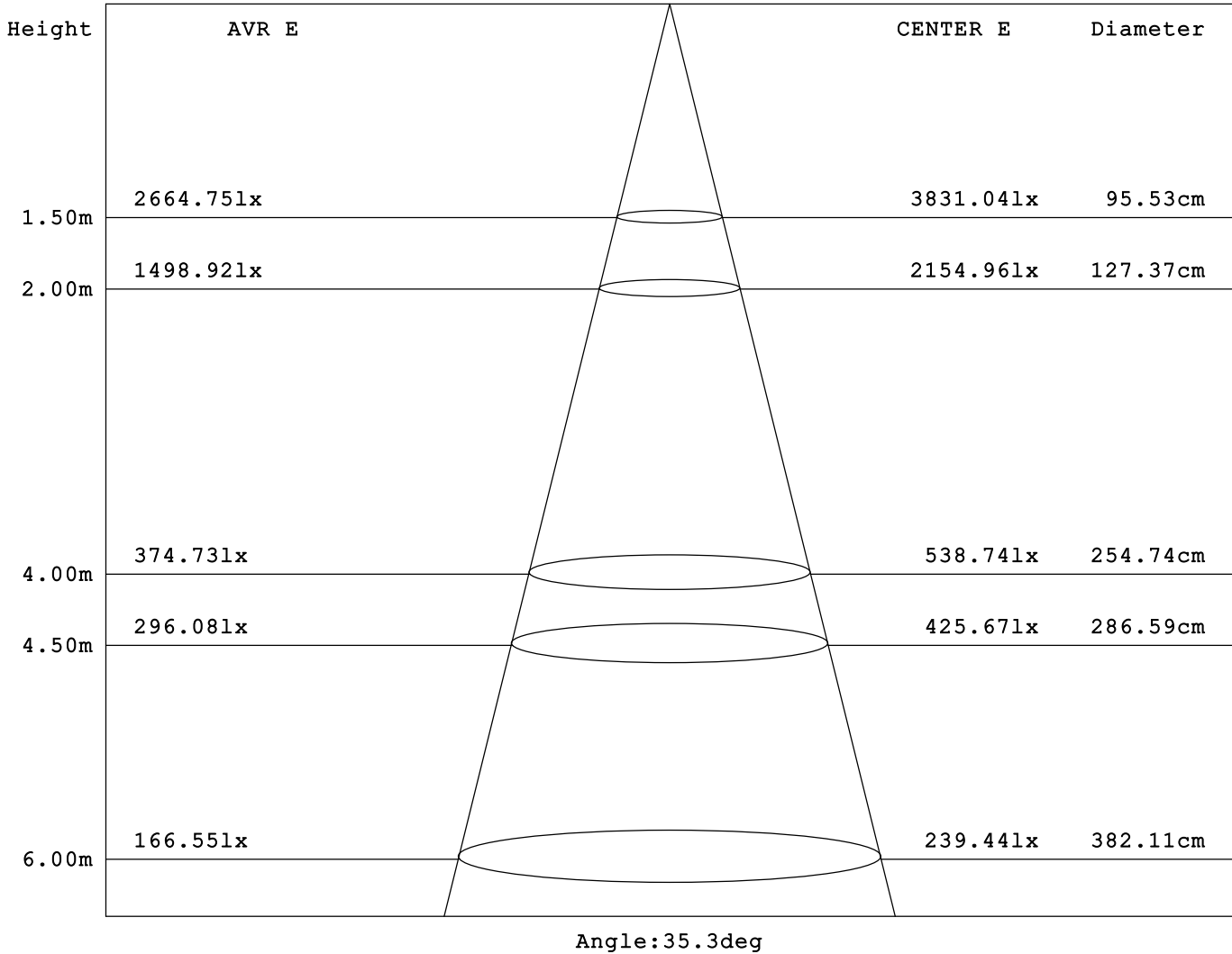
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
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AVERAGE AND CENTER E Figure

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 Temperature: 25.3DEG
 Operators:
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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	6537	6566	6799	7188	7527	7434	7118	6788	0- 10	744.5	744.5
20.0	3301	3267	3343	3801	4242	4004	3573	3386	10- 20	1465	2209
30.0	1085	1125	1075	1385	1541	1438	1181	1162	20- 30	1050	3259
40.0	178.9	245.8	185.6	322.9	322.0	347.6	178.6	257.1	30- 40	429.4	3689
50.0	19.77	31.29	5.952	40.09	16.57	38.78	19.07	33.11	40- 50	92.70	3782
60.0	11.39	7.488	2.752	7.456	5.056	7.743	10.17	7.360	50- 60	12.36	3794
70.0	9.152	5.152	2.432	5.056	4.288	5.088	7.360	4.800	60- 70	6.168	3800
80.0	8.192	4.832	2.688	4.480	5.760	4.160	5.760	3.968	70- 80	5.465	3806
90.0	6.912	5.728	3.840	4.800	4.736	3.648	4.672	3.552	80- 90	5.012	3811
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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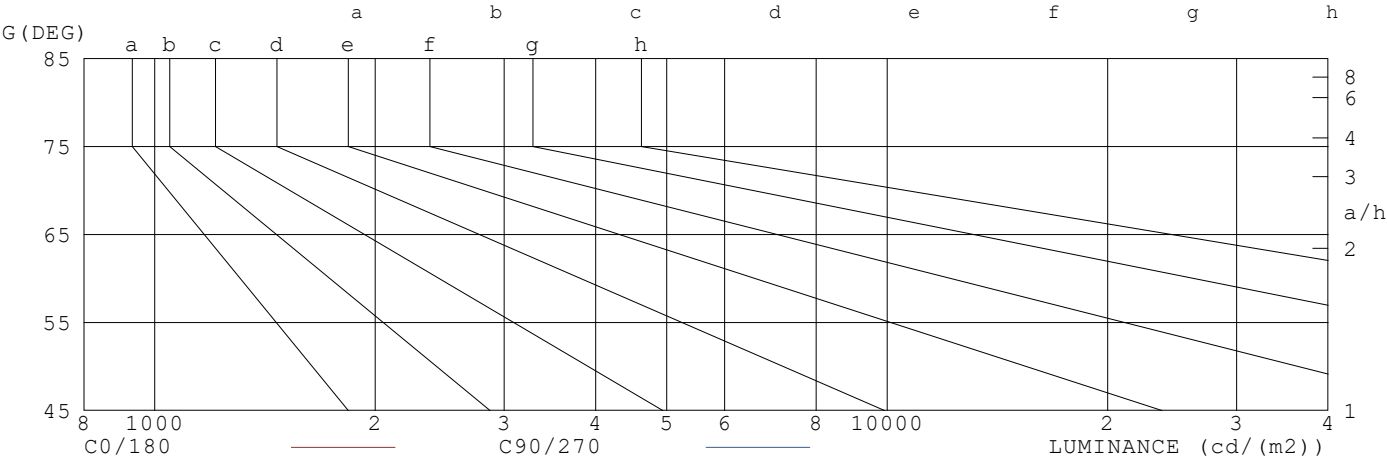
LUMINANCE LIMITATION CURVES

Report number:

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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	808	345
80	472	155
75	349	96
70	268	71
65	218	61
60	228	55
55	239	57
50	308	93
45	1111	1043

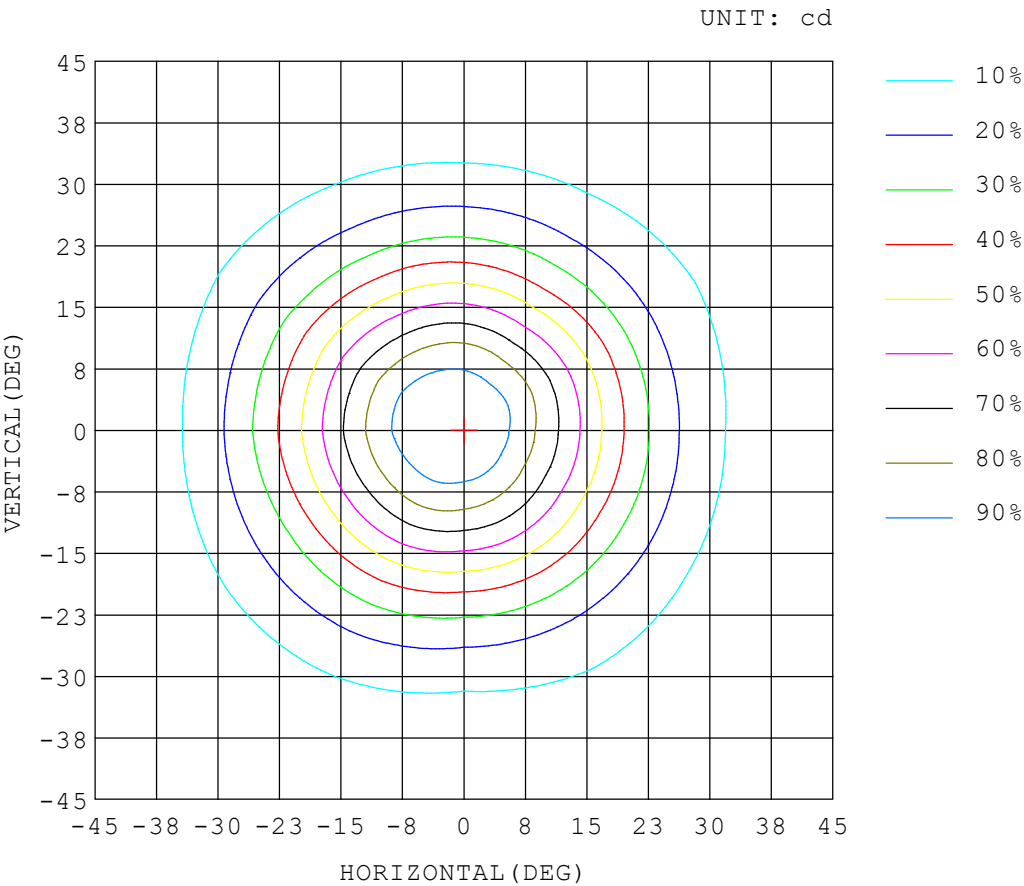
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ISOCANDELA DIAGRAM

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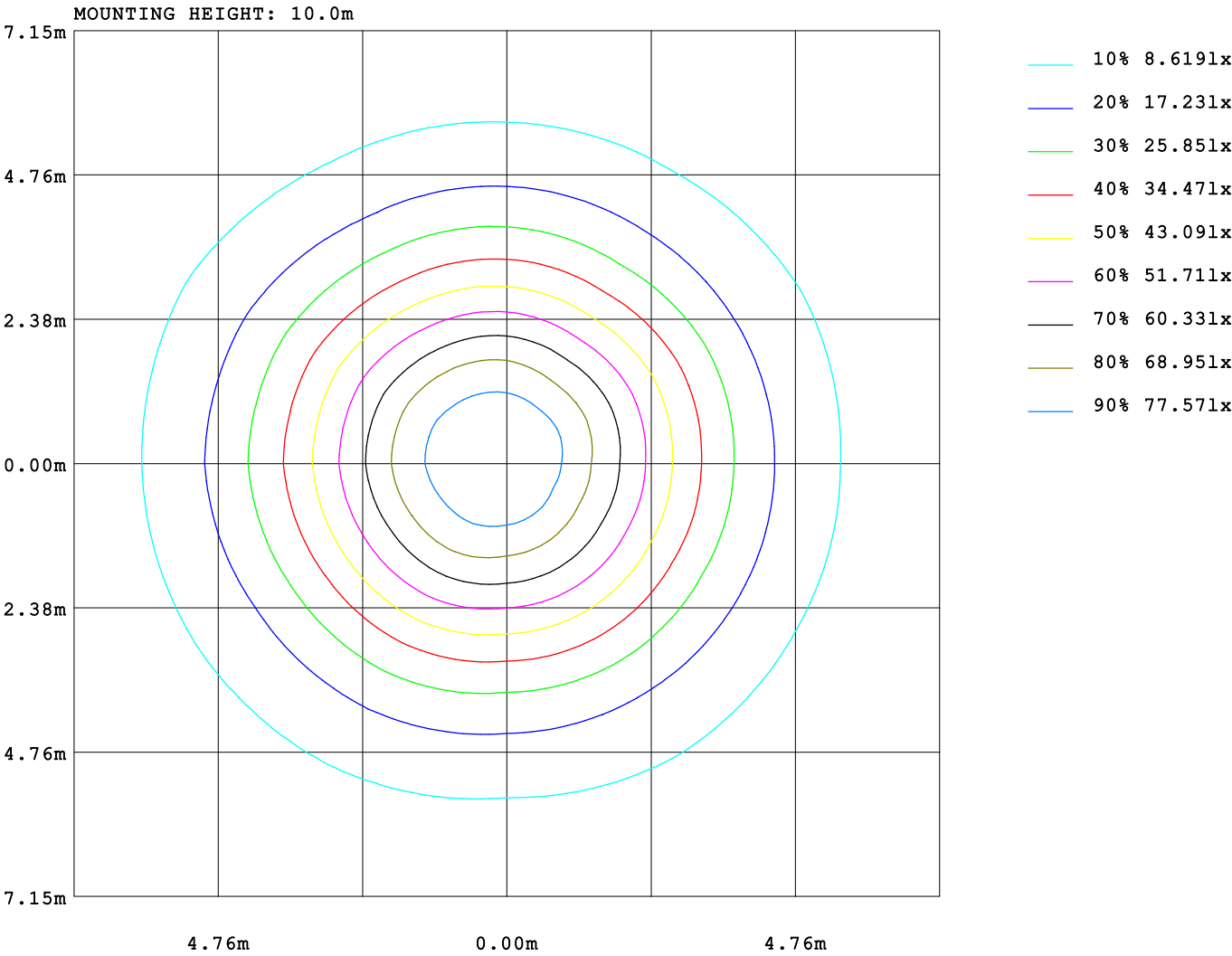
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ISOLUX DIAGRAM

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AREA LUMINOUS FLUX

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NAME: VIRAJ 45 LENS										TYPE: .5W 4K CRI 90					WEIGHT:				
SPECIFICATION: FULHAM 600 MA										DIMENSION: 1200*46*70 MM					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.07	0.11	0.19	0.32	0.48	0.71	0.95	1.07	1.05	1.01	0.96	0.81	0.60	0.40	0.26	0.16	0.10	0.07	9.34	0.00		
45																						
40																						
35																						
30																						
25																						
20																						
15																						

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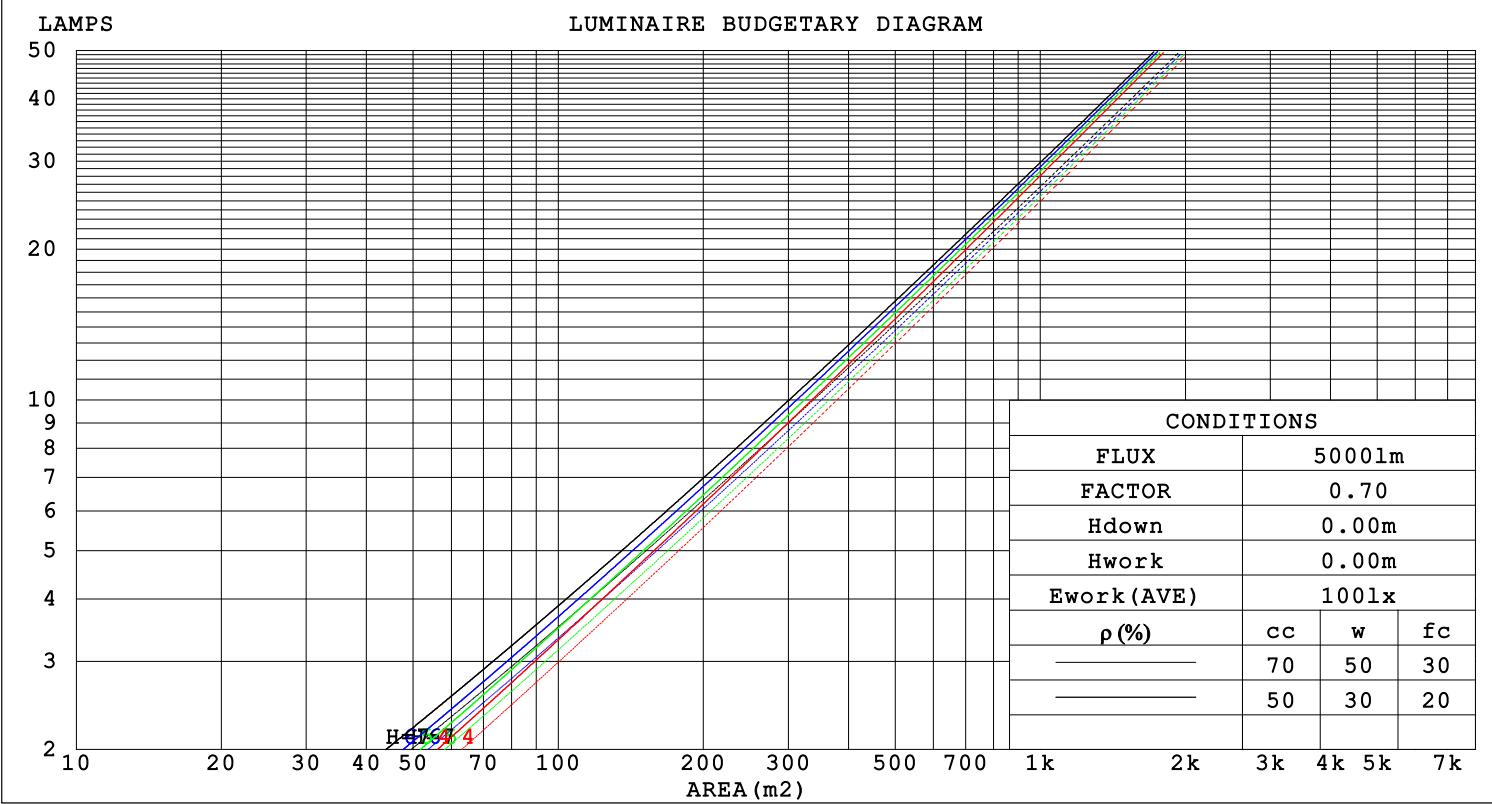
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPECIFICATION: FULHAM 600 MA								DIMENSION: 1200*46*70 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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.98	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.93	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
6.0	.85	.80	.76	.84	.80	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
7.0	.81	.76	.73	.81	.76	.72	.80	.75	.72	.78	.75	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.71	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.61



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WEC AND CCEC

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TYPE: .5W 4K CRI 90

WEIGHT:

SPECIFICATION: FULHAM 600 MA

DIMENSION: 1200*46*70 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	.159	.091	.029	.153	.087	.028	.140	.080	.026	.129	.074	.024	.118	.068	.022	
2.0	.150	.082	.025	.144	.079	.024	.134	.074	.023	.124	.070	.022	.115	.065	.021	
3.0	.141	.075	.023	.137	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019	
4.0	.134	.070	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018	
5.0	.127	.065	.019	.124	.063	.018	.117	.061	.018	.111	.059	.017	.105	.056	.017	
6.0	.121	.061	.017	.118	.060	.017	.112	.058	.017	.107	.056	.016	.102	.054	.016	
7.0	.116	.057	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015	.099	.051	.015	
8.0	.111	.054	.015	.108	.053	.015	.104	.052	.015	.100	.050	.015	.096	.049	.014	
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.093	.047	.014	
10.0	.102	.049	.014	.100	.048	.013	.096	.047	.013	.093	.046	.013	.090	.045	.013	

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.086	.063	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008	
6.0	.111	.077	.052	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
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Uncorrected UGR Table

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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	5.8	6.6	6.0	6.7	6.9	6.4	7.2	6.6	7.3	7.5
3H	5.7	6.4	5.9	6.6	6.8	6.2	7.0	6.5	7.2	7.4
4H	5.7	6.4	6.0	6.6	6.8	6.2	6.9	6.4	7.1	7.3
6H	5.8	6.4	6.1	6.7	6.9	6.1	6.8	6.4	7.0	7.3
8H	5.9	6.5	6.2	6.7	7.0	6.1	6.7	6.4	7.0	7.2
12H	6.0	6.6	6.3	6.9	7.1	6.1	6.7	6.4	7.0	7.2
4H 2H	5.6	6.3	5.8	6.5	6.7	6.1	6.8	6.4	7.1	7.3
3H	5.5	6.1	5.8	6.3	6.6	6.0	6.6	6.3	6.9	7.2
4H	5.5	6.0	5.8	6.3	6.6	6.0	6.5	6.3	6.8	7.1
6H	5.6	6.1	6.0	6.4	6.8	6.0	6.5	6.3	6.8	7.1
8H	5.7	6.2	6.1	6.5	6.9	6.0	6.4	6.4	6.8	7.1
12H	6.0	6.4	6.4	6.8	7.2	6.0	6.4	6.4	6.8	7.2
8H 4H	5.4	5.8	5.8	6.2	6.5	5.9	6.3	6.3	6.7	7.0
6H	5.5	5.9	6.0	6.3	6.7	5.9	6.3	6.4	6.7	7.1
8H	5.7	6.0	6.1	6.5	6.9	6.0	6.4	6.5	6.8	7.2
12H	6.1	6.4	6.6	6.8	7.3	6.2	6.5	6.7	6.9	7.4
12H 4H	5.3	5.8	5.7	6.1	6.5	5.8	6.2	6.2	6.6	7.0
6H	5.5	5.8	6.0	6.3	6.7	5.9	6.2	6.4	6.7	7.1
8H	5.7	6.0	6.2	6.4	6.9	6.0	6.3	6.5	6.8	7.2

Variations with the observer position at spacings:

S = 1.0H	+ 2.3 / - 3.8	+ 2.8 / - 5.2
1.5H	+ 4.5 / - 4.1	+ 5.1 / - 5.6
2.0H	+ 4.5 / - 0.9	+ 4.3 / - 1.4

CIE Pub.117 Corrected 3811 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

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UTILIZATION FACTORS TABLE

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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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	83	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

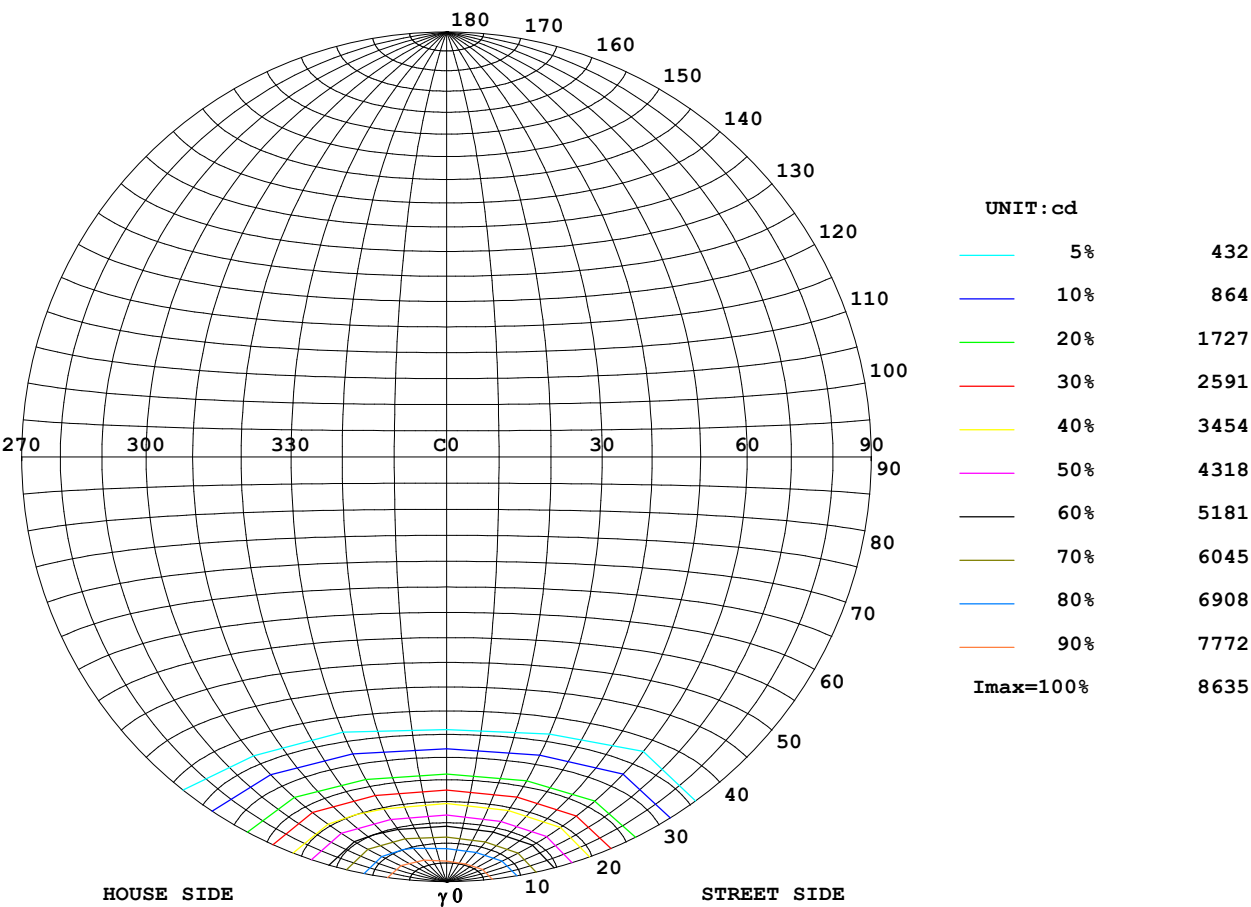
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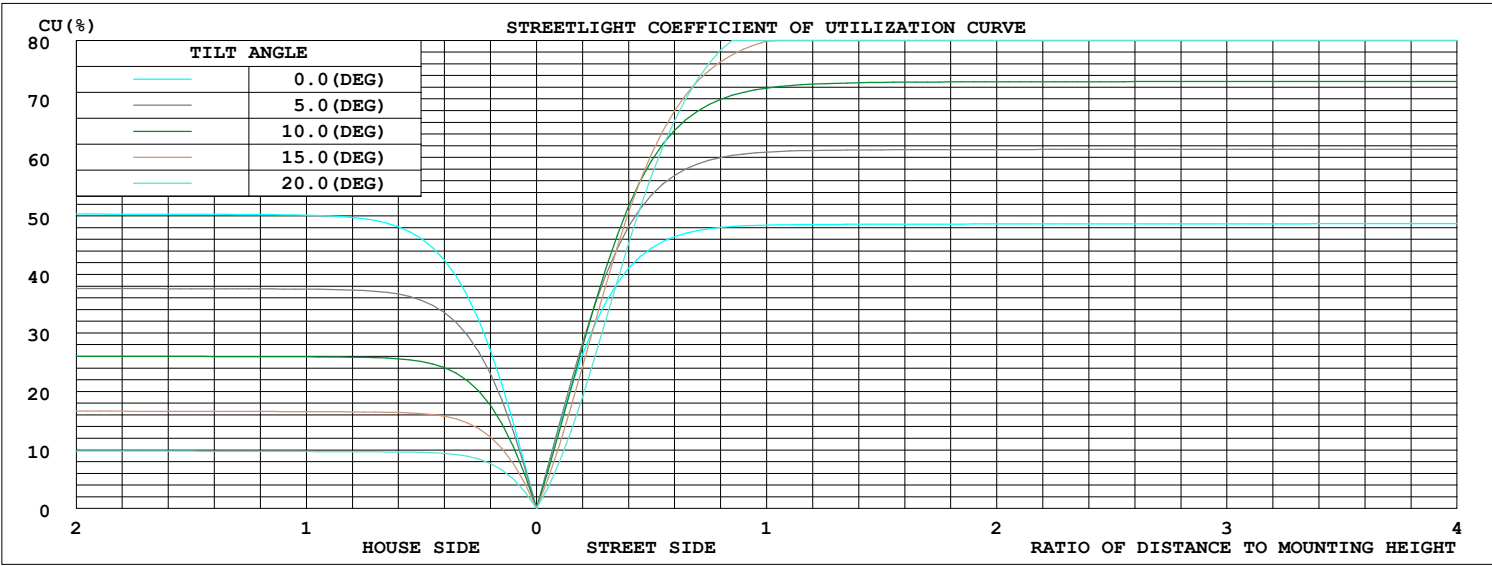
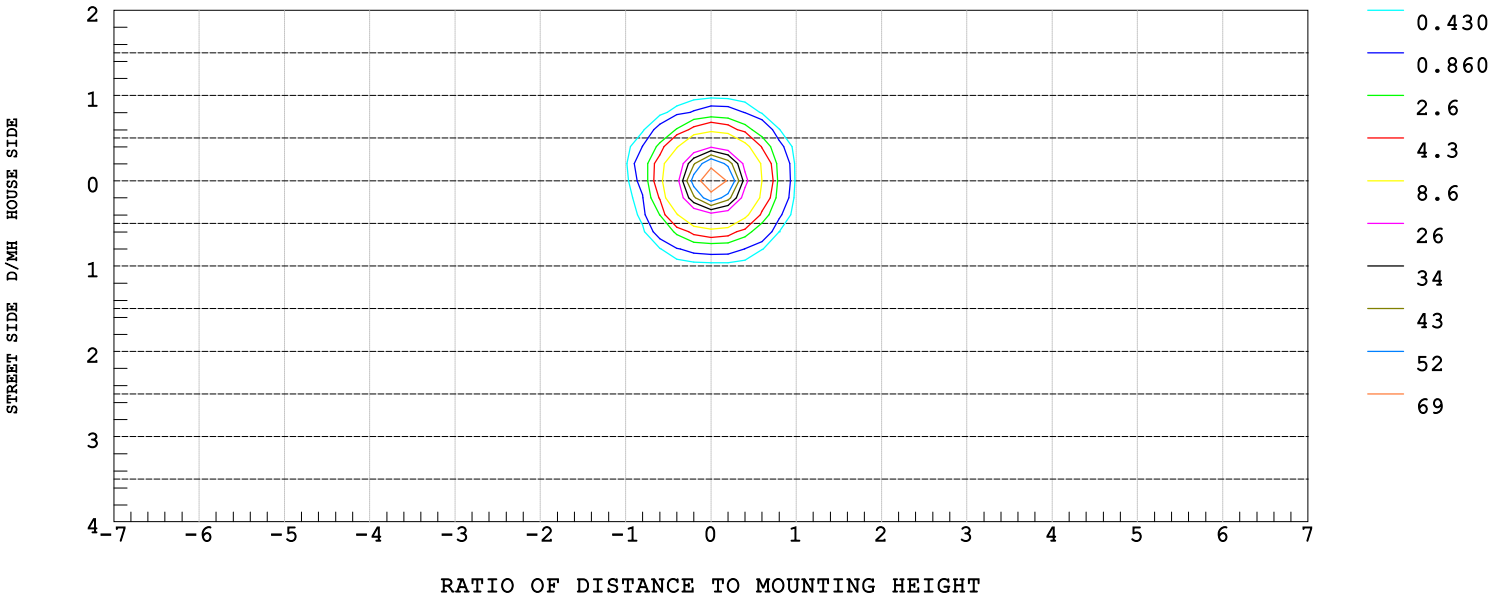
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 4K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 86.20 lx



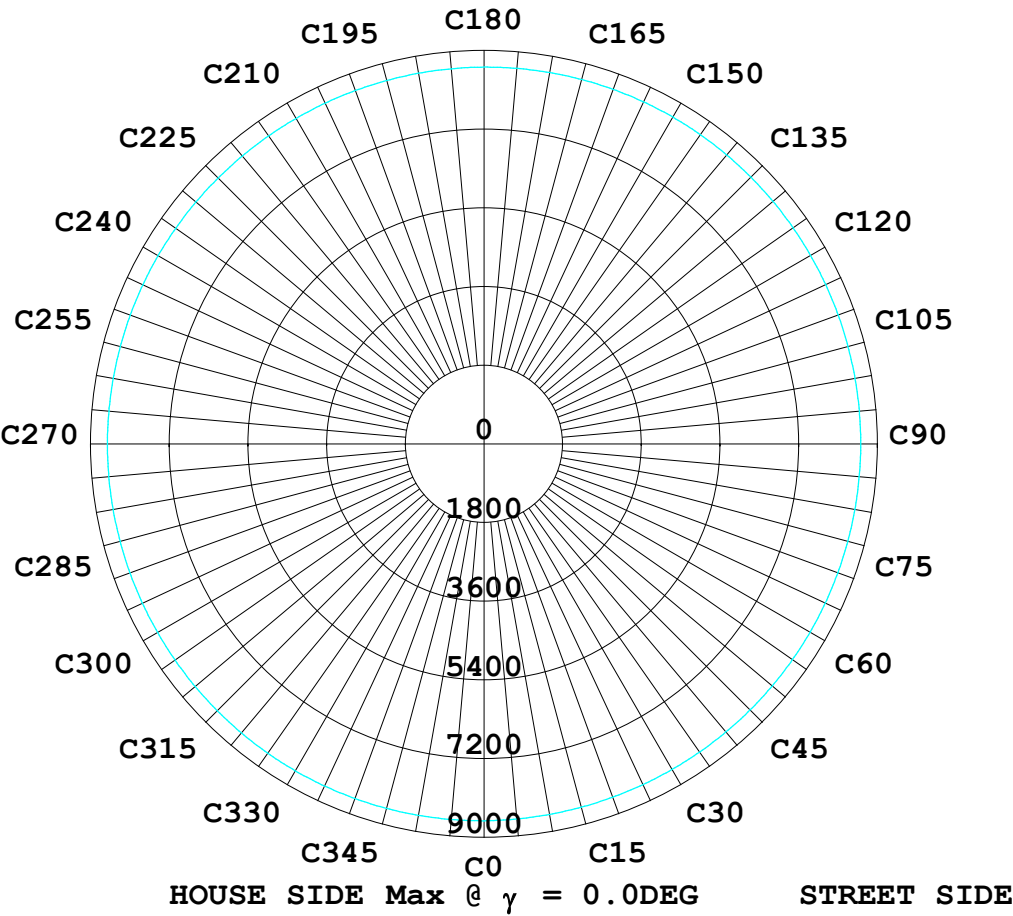
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 4K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 4K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	8620	8601	8612	8616	8626	8635	8620	8601	8612	8616	8626	8635
5.0	7902	7855	7970	8084	8258	8360	8499	8511	8430	8320	8138	8065
10.0	6537	6490	6642	6799	7104	7272	7527	7548	7321	7118	6821	6756
15.0	4892	4838	4956	5067	5439	5651	5941	5931	5564	5324	5028	5040
20.0	3301	3227	3307	3343	3685	3918	4242	4207	3801	3573	3346	3427
25.0	1941	1952	1945	1991	2294	2463	2777	2693	2331	2175	2013	1953
30.0	1085	1085	1166	1075	1320	1451	1541	1567	1309	1181	1112	1211
35.0	496	531	604	486	681	775	755	855	671	561	566	640
40.0	179	213	279	186	300	346	322	384	311	179	223	291
45.0	78.5	77.7	110	73.7	121	114	83.8	128	91.0	85.8	79.1	113
50.0	19.7	20.4	42.1	5.95	46.9	33.2	16.5	46.1	31.4	19.0	21.8	44.4
55.0	13.6	5.18	13.8	3.26	14.1	6.46	5.69	16.6	4.54	12.4	3.84	16.0
60.0	11.3	4.28	10.6	2.75	10.8	4.09	5.05	12.4	3.00	10.1	2.81	11.9
65.0	9.21	3.20	8.83	2.56	8.89	3.13	4.28	10.0	2.49	8.57	2.36	9.34
70.0	9.15	2.62	7.68	2.43	7.68	2.43	4.28	8.00	2.17	7.36	2.04	7.55
75.0	9.02	2.75	6.97	2.49	6.91	2.43	9.02	6.91	2.11	6.46	1.98	6.59
80.0	8.19	3.07	6.59	2.68	6.33	2.62	5.76	6.27	2.04	5.76	1.98	5.95
85.0	7.04	3.64	6.46	3.00	6.08	3.00	4.09	5.82	2.04	5.24	1.98	5.37
90.0	6.91	4.73	6.72	3.84	5.82	3.77	4.73	4.86	2.43	4.67	2.36	4.73

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 4000K