

LUMINAIRE PHOTOMETRIC TEST REPORT

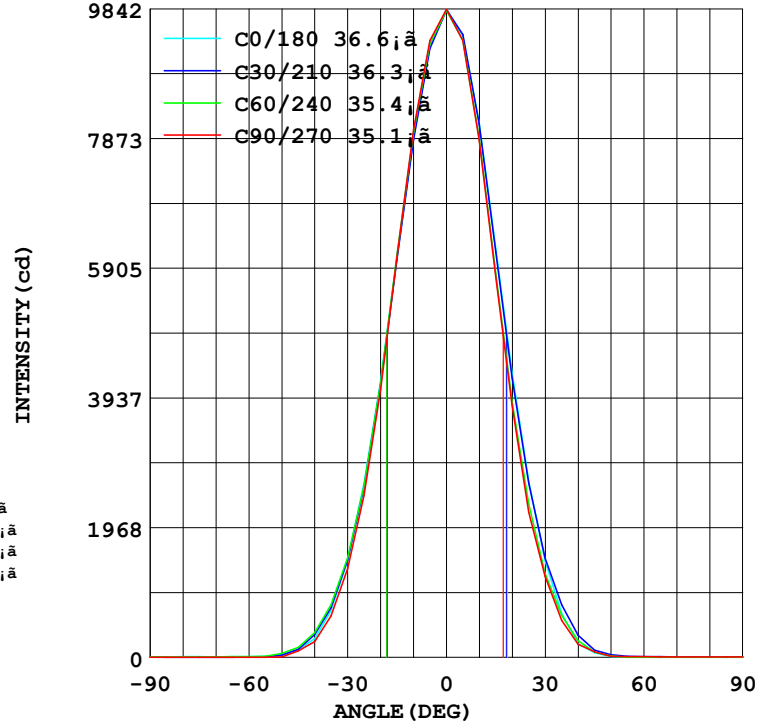
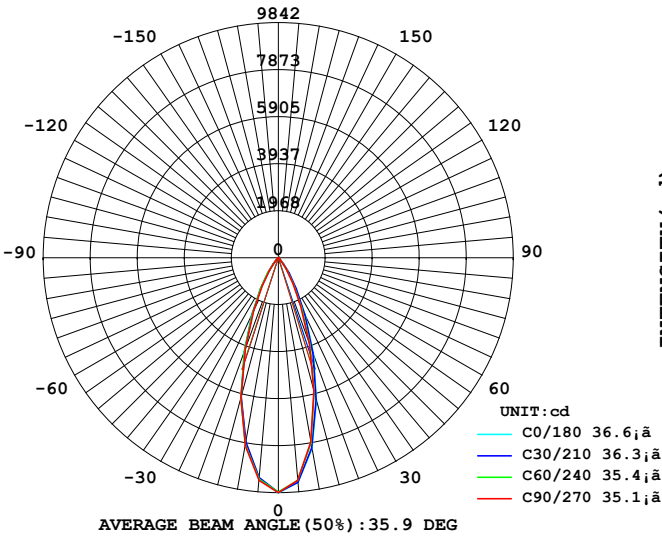
Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 57K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	9842	S/MH (C0/180)	0.59
MODEL	VIRAJ 45 LENS	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.58
NOMINAL POWER (W)	30	TOTAL FLUX (lm)	4326.0	Voltage (V)	219.1
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	141.8	Current (A)	0.140
NOMINAL FLUX (lm)	4326.0	η up (%)	0.0	Power (W)	30.50
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.988
TEST VOLTAGE (V)	219.2	Effective Flux (lm)	3950.9	EET	0.105

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



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:8.500 m
 Remarks: 5700K

Color Temperature Data List

Report number:

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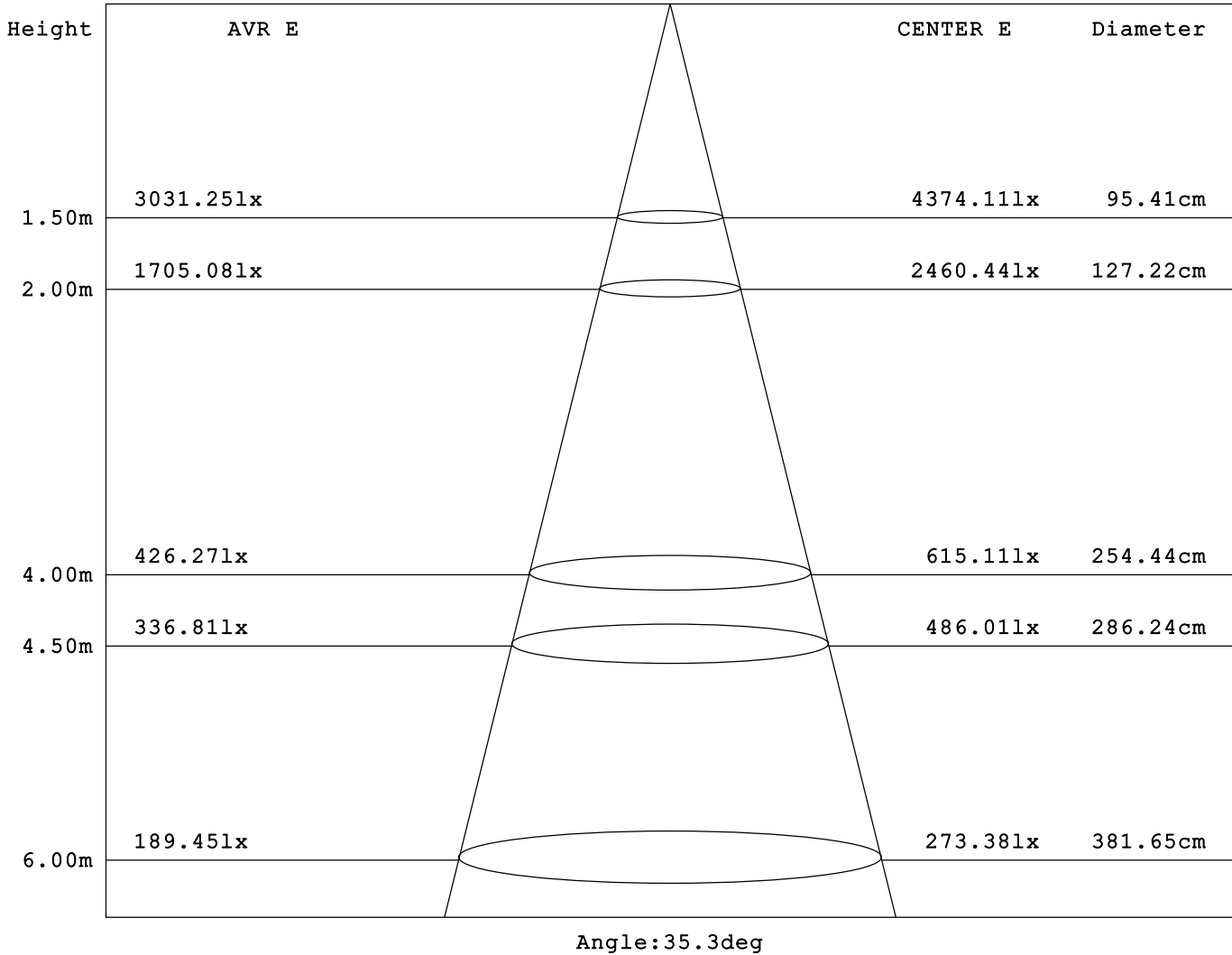
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AVERAGE AND CENTER E Figure

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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	7882	7912	8006	8079	8109	7991	7855	7801	0- 10	848.0	848.0
20.0	4195	4150	4061	4250	4318	4060	3824	3932	10- 20	1663	2511
30.0	1473	1498	1346	1537	1472	1390	1229	1367	20- 30	1193	3704
40.0	282.3	361.3	239.2	361.1	208.5	295.5	199.9	309.1	30- 40	484.5	4189
50.0	32.29	49.67	9.392	43.56	10.11	31.64	19.00	40.71	40- 50	104.3	4293
60.0	13.51	8.850	3.179	8.489	5.491	8.236	11.27	8.525	50- 60	14.17	4307
70.0	9.609	5.996	2.817	5.743	5.418	5.491	8.092	5.563	60- 70	6.996	4314
80.0	10.47	5.382	2.962	5.129	5.852	4.515	6.358	4.443	70- 80	6.163	4320
90.0	7.730	6.141	4.118	5.382	4.985	4.009	5.202	4.009	80- 90	5.580	4326
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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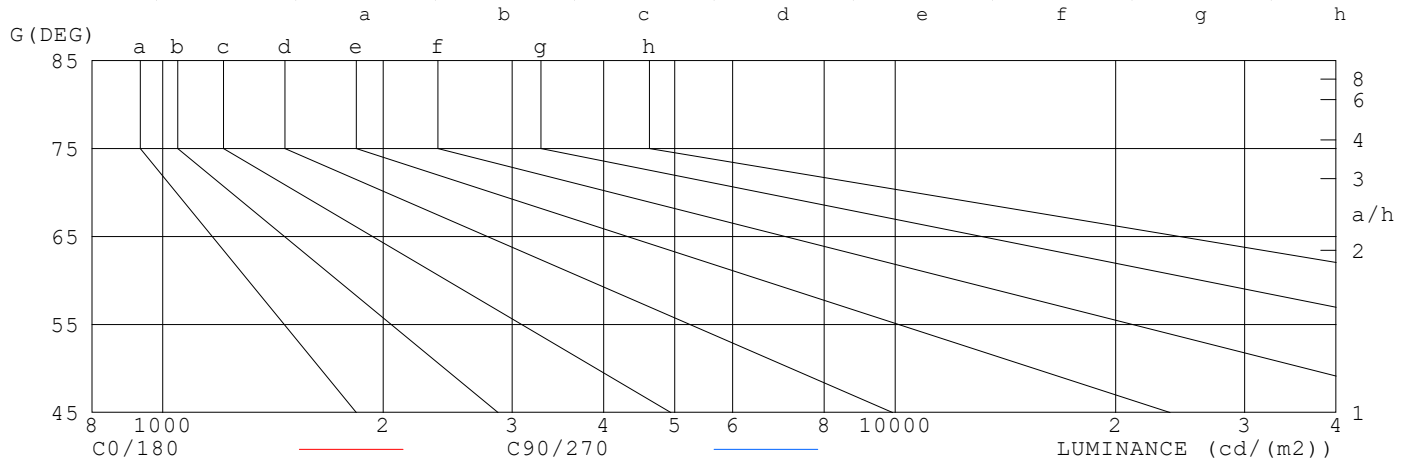
LUMINANCE LIMITATION CURVES

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	920	373
80	603	171
75	489	112
70	281	82
65	260	68
60	270	64
55	287	66
50	502	146
45	1682	1402

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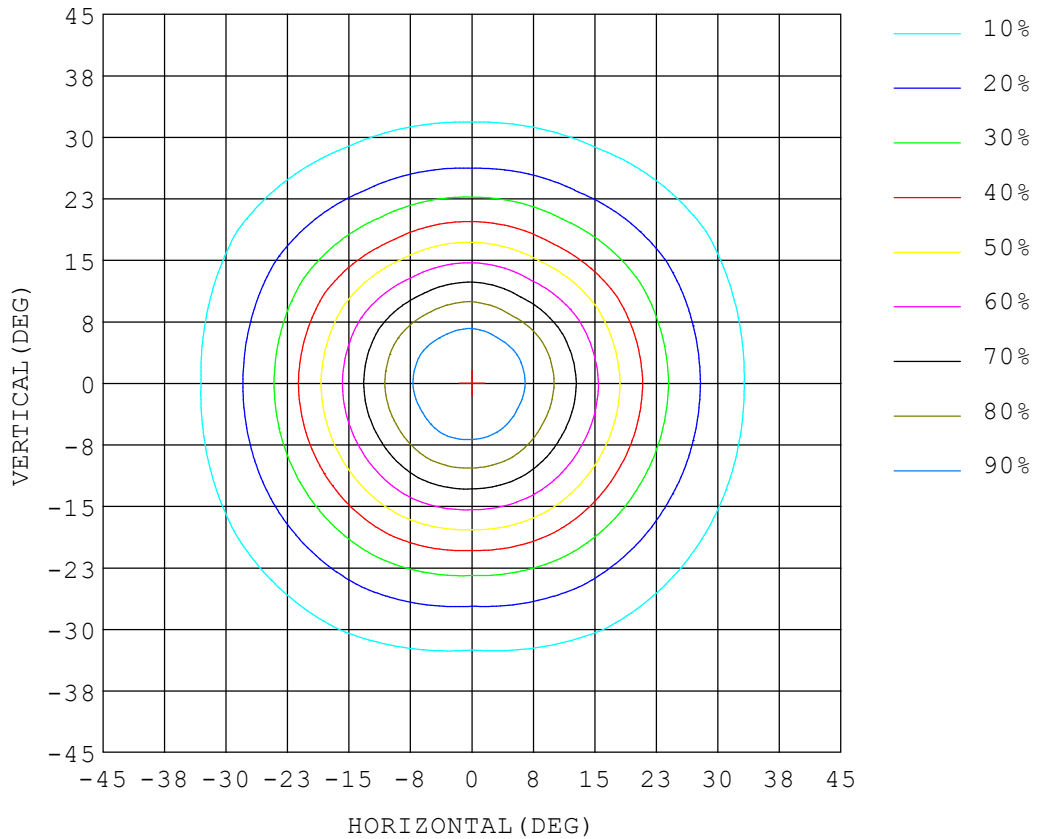
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ISOCANDELA DIAGRAM

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UNIT: cd



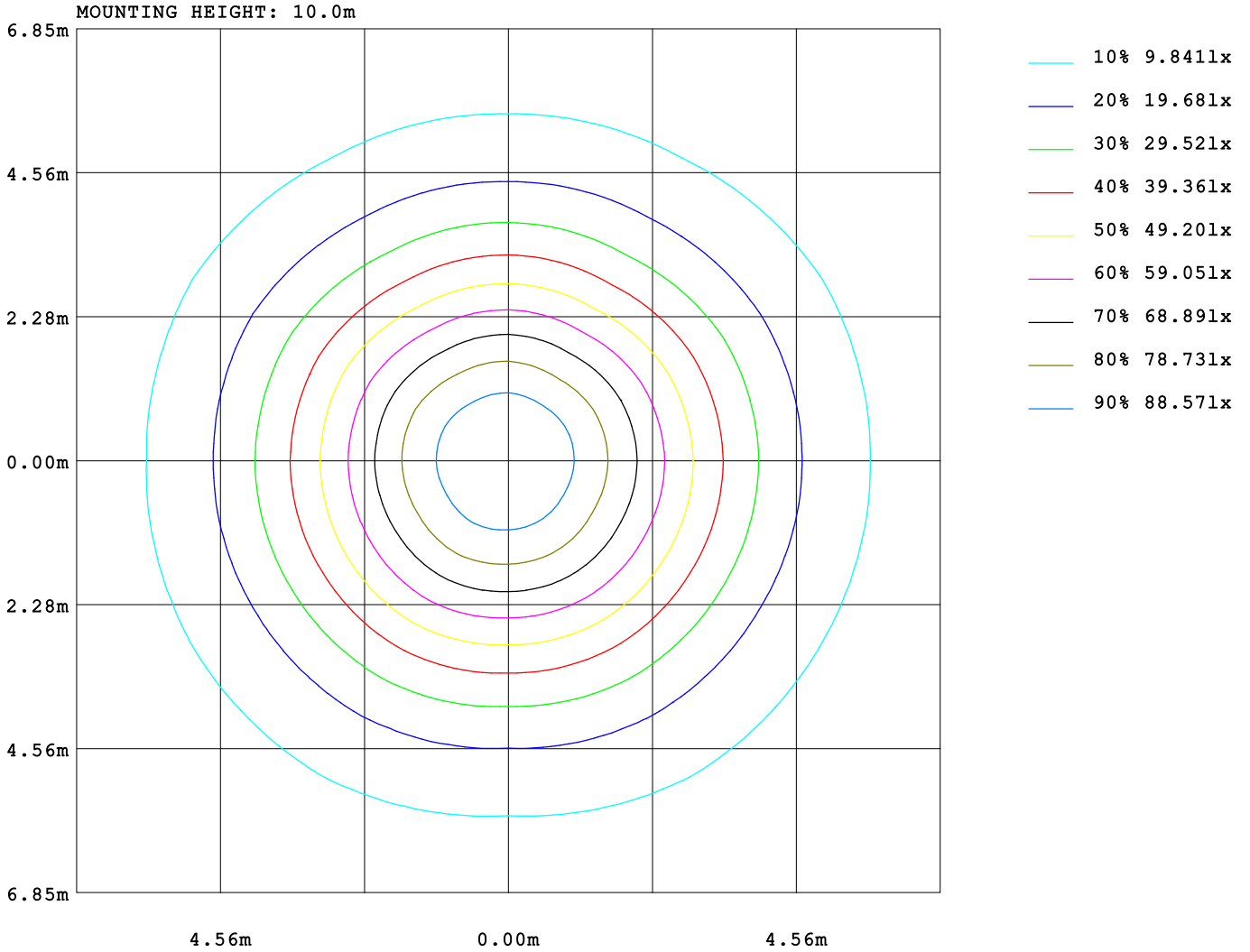
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ISOLUX DIAGRAM

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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
	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45			
45	0.07	0.10	0.16	0.26	0.41	0.62	0.86	1.02	1.08	1.09	1.04	0.89	0.67	0.46	0.31	0.20	0.12	0.08	9.46	0.00		
40	0.11	0.19	0.37	0.65	1.13	1.67	2.26	2.71	2.91	2.90	2.71	2.25	1.67	1.19	0.77	0.47	0.26	0.14	24.4	0.00		
35	0.18	0.38	0.79	1.57	2.64	3.87	5.14	6.21	6.76	6.75	6.18	5.12	3.86	2.66	1.67	0.95	0.51	0.25	55.5	10.7		
30	0.28	0.70	1.63	3.15	5.13	7.39	9.73	11.8	12.9	12.9	11.7	9.58	7.29	5.11	3.22	1.79	0.89	0.40	106	78.1		
25	0.40	1.19	2.85	5.35	8.60	12.5	16.6	20.4	22.6	22.5	20.1	16.2	12.3	8.47	5.33	2.99	1.41	0.57	181	161		
20	0.56	1.68	4.16	7.97	13.0	19.3	26.1	32.1	35.9	35.6	31.4	25.4	18.8	12.7	7.87	4.24	1.92	0.78	280	265		
15	0.72	2.18	5.36	10.4	17.8	27.1	36.9	45.4	50.9	50.4	44.3	35.8	26.2	17.3	10.2	5.42	2.44	0.98	390	377		
10	0.81	2.55	6.34	12.5	21.7	33.6	46.7	57.9	64.3	63.7	56.6	45.2	32.6	21.1	12.3	6.42	2.84	1.10	489	477		
5	0.81	2.69	6.85	13.7	24.1	37.4	52.2	65.0	72.1	71.4	63.5	50.7	36.4	23.5	13.6	6.96	3.02	1.14	546	534		
0	0.82	2.70	6.86	13.8	24.1	37.5	52.2	64.9	72.1	71.4	63.5	50.9	36.5	23.5	13.6	6.94	3.00	1.13	546	534		
-5	0.82	2.58	6.37	12.6	21.7	33.8	47.0	58.7	65.2	64.7	57.5	45.9	32.9	21.2	12.3	6.36	2.79	1.07	494	482		
-10	0.72	2.22	5.39	10.5	17.9	27.6	38.4	47.9	52.9	52.5	47.0	37.5	26.8	17.4	10.2	5.31	2.37	0.92	404	391		
-15	0.55	1.74	4.20	8.13	13.5	20.4	28.1	34.7	38.1	37.9	34.1	27.6	19.9	13.1	7.81	4.07	1.84	0.71	297	282		
-20	0.37	1.22	2.97	5.63	9.39	13.9	18.8	22.6	24.6	24.5	22.3	18.4	13.7	9.12	5.41	2.88	1.30	0.49	198	180		
-25	0.23	0.70	1.81	3.55	5.87	8.75	11.4	13.5	14.4	14.4	13.4	11.3	8.62	5.73	3.47	1.82	0.79	0.30	120	96.7		
-30	0.13	0.39	0.93	1.95	3.31	4.89	6.25	7.24	7.60	7.59	7.21	6.22	4.87	3.31	1.98	1.01	0.46	0.17	65.5	22.5		
-35	0.07	0.20	0.47	0.92	1.64	2.38	2.96	3.34	3.40	3.40	3.35	2.99	2.43	1.70	0.99	0.54	0.24	0.08	31.1	0.00		
-40	0.04	0.10	0.23	0.45	0.74	1.01	1.25	1.37	1.34	1.35	1.39	1.28	1.06	0.79	0.49	0.25	0.11	0.05	13.3	0.00		
-45																						
	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45			
Φ t	7.71	23.5	57.7	113	193	294	403	497	550	546	488	394	287	189	112	58.6	26.3	10.3	4326			
Φ a	0.00	0.00	21.3	90.3	173	276	387	481	535	531	472	377	269	168	87.9	21.0	0.00	0.00		3951		

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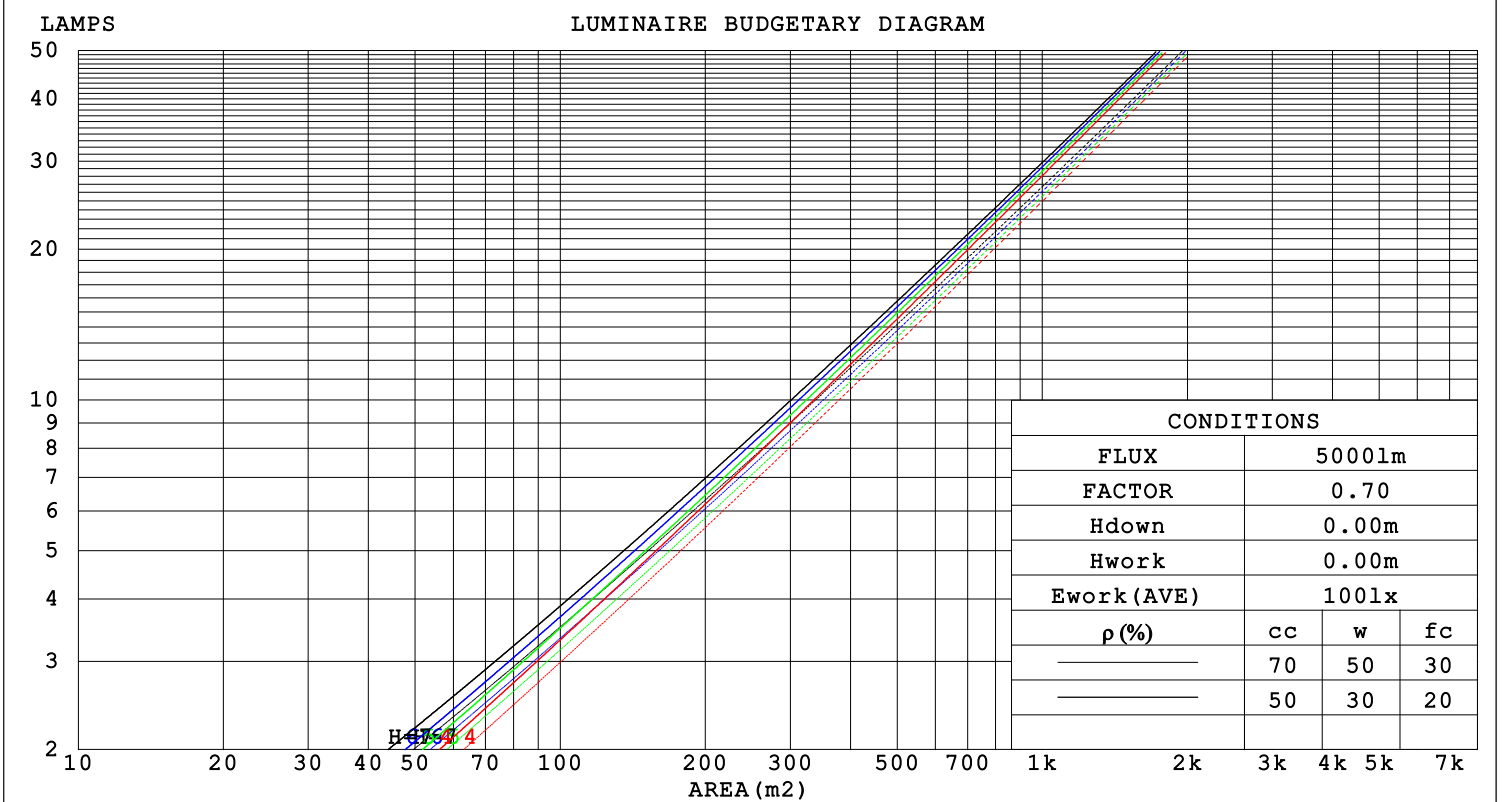
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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						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	.94	.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	.90	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.79	.77
6.0	.85	.80	.77	.85	.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	.66	.72	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.159	.090	.029	.152	.087	.028	.140	.080	.026	.128	.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	.136	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019	
4.0	.134	.069	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018	
5.0	.127	.065	.019	.123	.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	.115	.057	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015	.099	.051	.015	
8.0	.110	.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	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.093	.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	

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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	8.0	8.8	8.2	9.0	9.1	7.9	8.7	8.1	8.9	9.0
	3H	7.9	8.6	8.1	8.8	9.0	7.7	8.5	8.0	8.7	8.9
	4H	7.9	8.6	8.1	8.8	9.0	7.7	8.4	7.9	8.6	8.8
	6H	7.9	8.6	8.2	8.8	9.1	7.6	8.3	7.9	8.5	8.8
	8H	7.9	8.6	8.2	8.8	9.1	7.6	8.2	7.9	8.5	8.7
	12H	8.0	8.6	8.3	8.9	9.2	7.6	8.2	7.9	8.4	8.7
4H	2H	7.8	8.5	8.0	8.7	8.9	7.7	8.4	7.9	8.6	8.8
	3H	7.6	8.2	7.9	8.5	8.8	7.5	8.1	7.8	8.4	8.7
	4H	7.6	8.2	8.0	8.5	8.8	7.5	8.0	7.8	8.3	8.6
	6H	7.7	8.2	8.1	8.5	8.9	7.4	7.9	7.8	8.3	8.6
	8H	7.8	8.2	8.2	8.6	8.9	7.4	7.9	7.8	8.2	8.6
	12H	7.9	8.3	8.3	8.7	9.1	7.4	7.9	7.8	8.2	8.6
8H	4H	7.5	8.0	7.9	8.3	8.7	7.3	7.8	7.7	8.2	8.5
	6H	7.6	8.0	8.0	8.4	8.8	7.4	7.7	7.8	8.1	8.5
	8H	7.7	8.0	8.1	8.4	8.9	7.4	7.7	7.9	8.2	8.6
	12H	7.9	8.2	8.4	8.7	9.1	7.5	7.8	8.0	8.2	8.7
12H	4H	7.5	7.9	7.9	8.3	8.6	7.3	7.7	7.7	8.1	8.5
	6H	7.6	7.9	8.0	8.3	8.8	7.3	7.7	7.8	8.1	8.5
	8H	7.7	8.0	8.1	8.4	8.9	7.4	7.7	7.9	8.1	8.6

Variations with the observer position at spacings:		
S = 1.0H	+ 2.7 / - 5.3	+ 2.9 / - 6.1
1.5H	+ 5.0 / - 5.6	+ 5.2 / - 6.6
2.0H	+ 5.4 / - 1.5	+ 4.9 / - 1.9

CIE Pub.117 Corrected 4326 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.1)

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:8.500 m
 Remarks: 5700K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 57K CRI 90	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	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			

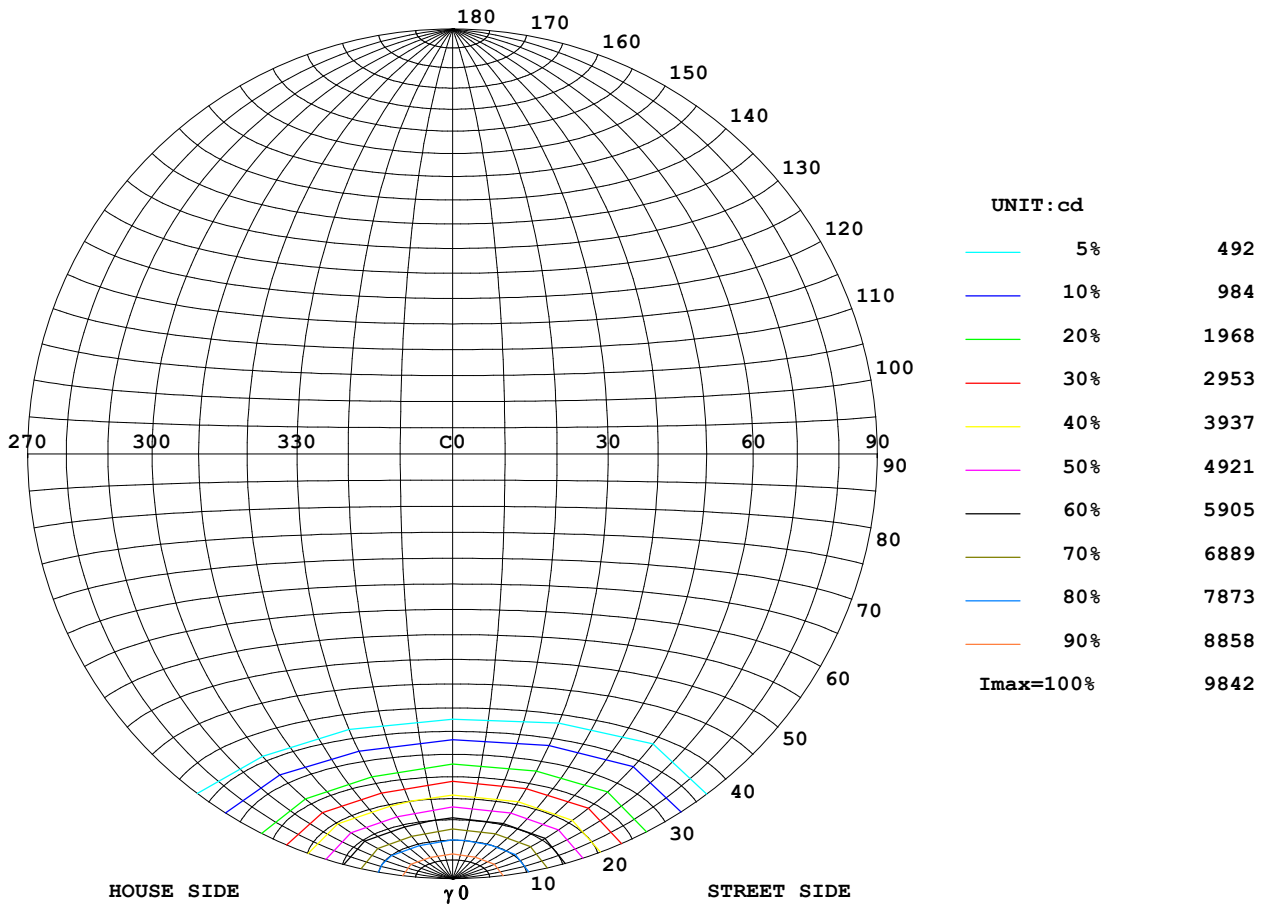
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 57K 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

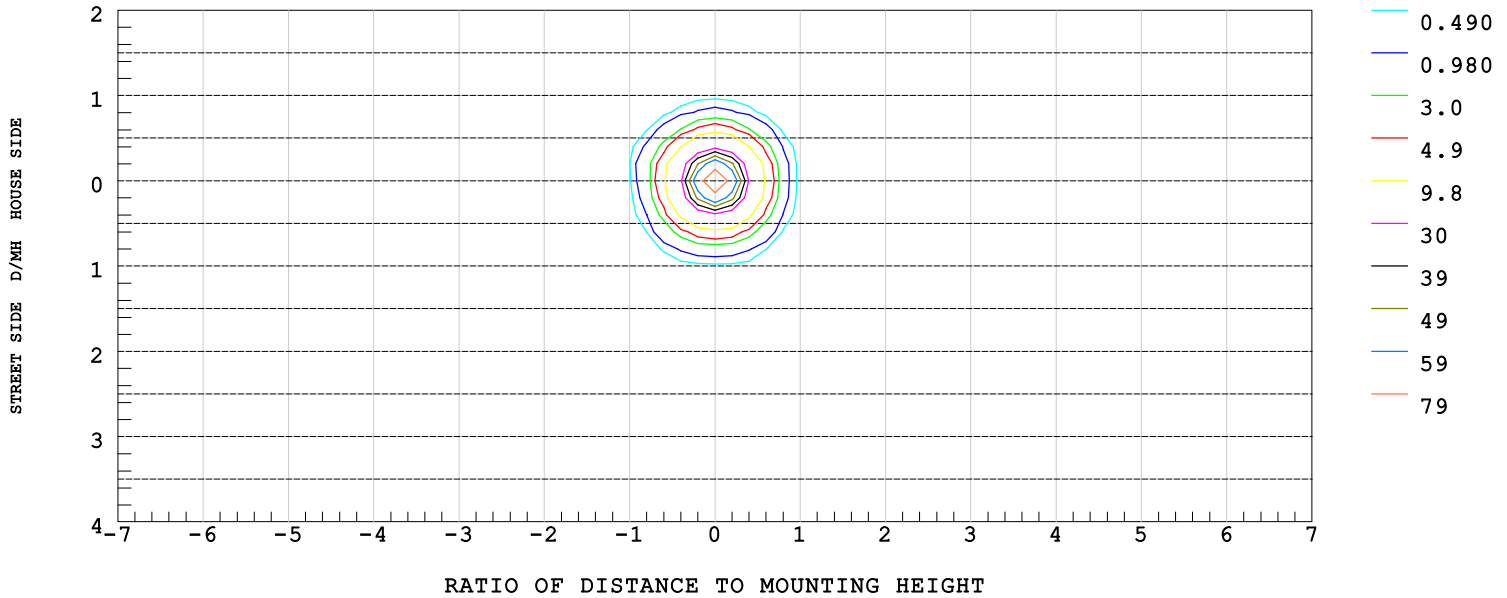
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks: 5700K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 57K CRI 90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46*70 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 98.42 lx



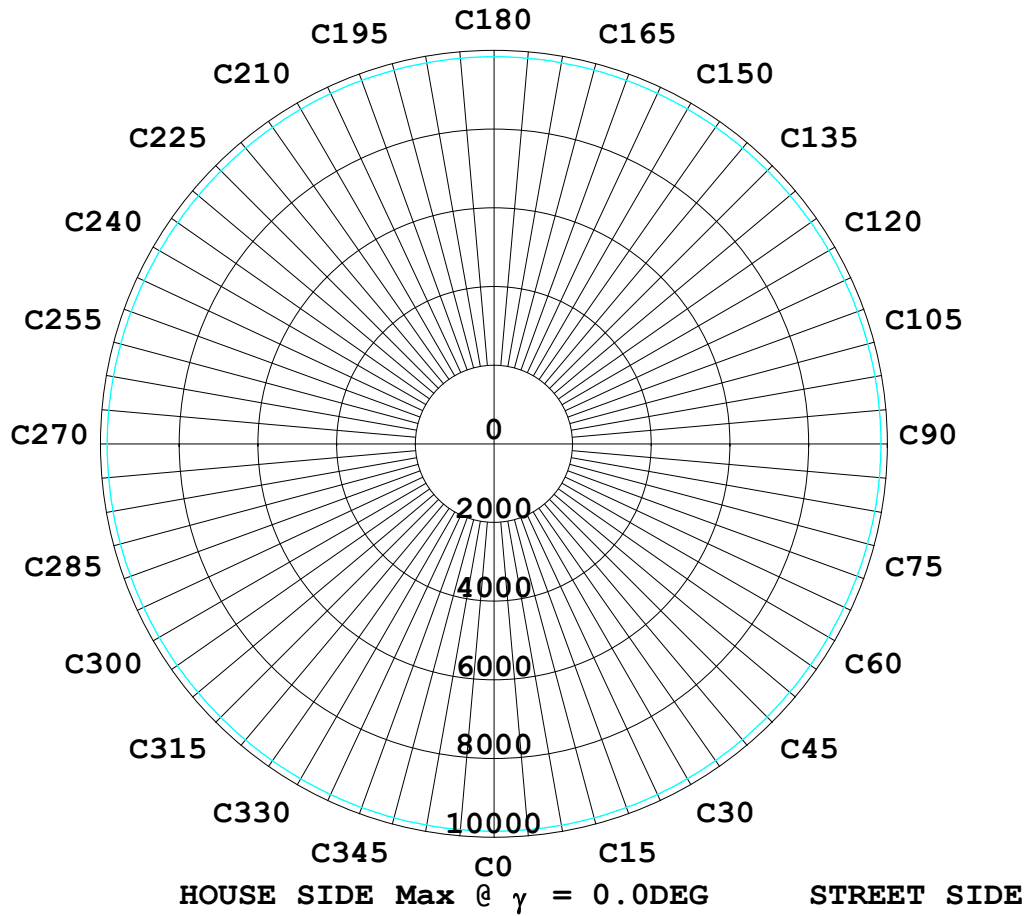
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-10-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45 LENS	TYPE: .5W 57K 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:8.500 m
 Remarks: 5700K

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 57K 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	9842	9826	9814	9833	9828	9830	9842	9826	9814	9833	9828	9830
5.0	9268	9237	9312	9361	9421	9391	9439	9449	9365	9357	9264	9289
10.0	7882	7857	7967	8006	8103	8055	8109	8094	7888	7855	7736	7865
15.0	6066	6039	6099	6072	6224	6191	6203	6154	5822	5768	5677	5947
20.0	4195	4143	4158	4061	4241	4259	4318	4239	3880	3824	3772	4092
25.0	2634	2572	2594	2452	2643	2646	2666	2646	2329	2201	2275	2573
30.0	1473	1481	1515	1346	1535	1538	1472	1506	1274	1229	1253	1481
35.0	712	756	796	631	801	800	669	798	638	561	637	793
40.0	282	348	375	239	367	355	209	336	255	200	251	367
45.0	119	122	151	99.1	142	104	68.7	108	78.6	84.2	89.6	143
50.0	32.2	38.5	60.7	9.39	58.0	29.0	10.1	39.3	23.9	19.0	24.9	56.4
55.0	16.4	7.00	17.1	3.75	16.4	6.14	6.14	16.8	4.33	13.6	4.40	19.5
60.0	13.5	5.12	12.5	3.17	12.3	4.62	5.49	13.2	3.17	11.2	3.25	13.7
65.0	10.9	4.04	10.3	2.89	10.1	3.54	4.69	10.5	2.60	9.46	2.67	10.9
70.0	9.60	3.10	8.88	2.81	8.67	2.81	5.41	8.59	2.38	8.09	2.38	8.74
75.0	12.6	3.03	7.94	2.89	7.80	2.81	7.94	7.58	2.23	7.15	2.23	7.51
80.0	10.4	3.32	7.44	2.96	7.22	3.03	5.85	6.79	2.23	6.35	2.16	6.71
85.0	8.01	3.97	7.15	3.25	6.79	3.39	4.40	6.28	2.31	5.92	2.23	6.14
90.0	7.73	4.98	7.29	4.11	6.50	4.26	4.98	5.27	2.74	5.20	2.67	5.34

Test System:HOPOO HPG1800
 Temperature:25.3DEG
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