

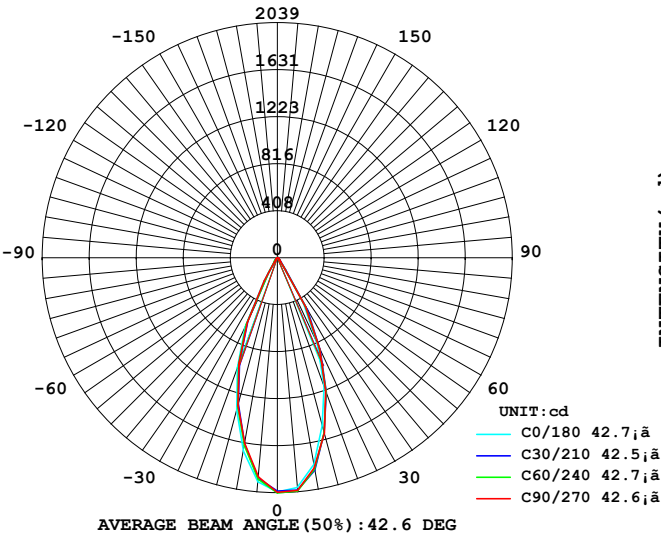
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

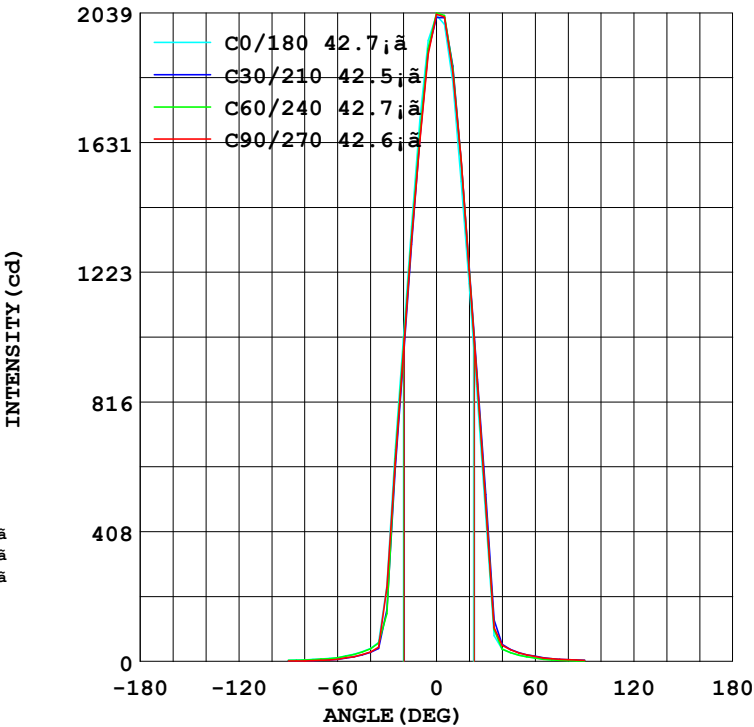
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	2039	S/MH (C0/180)	0.64
MODEL	GE MACTY	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.62
NOMINAL POWER (W)	10	TOTAL FLUX (lm)	1048.8	Voltage (V)	219.6
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	100.4	Current (A)	0.048
NOMINAL FLUX (lm)	1048.9	η up (%)	0.0	Power (W)	10.45
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.996
TEST VOLTAGE (V)	219.6	Effictive Flux (lm)	964.7	EEI	0.140

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

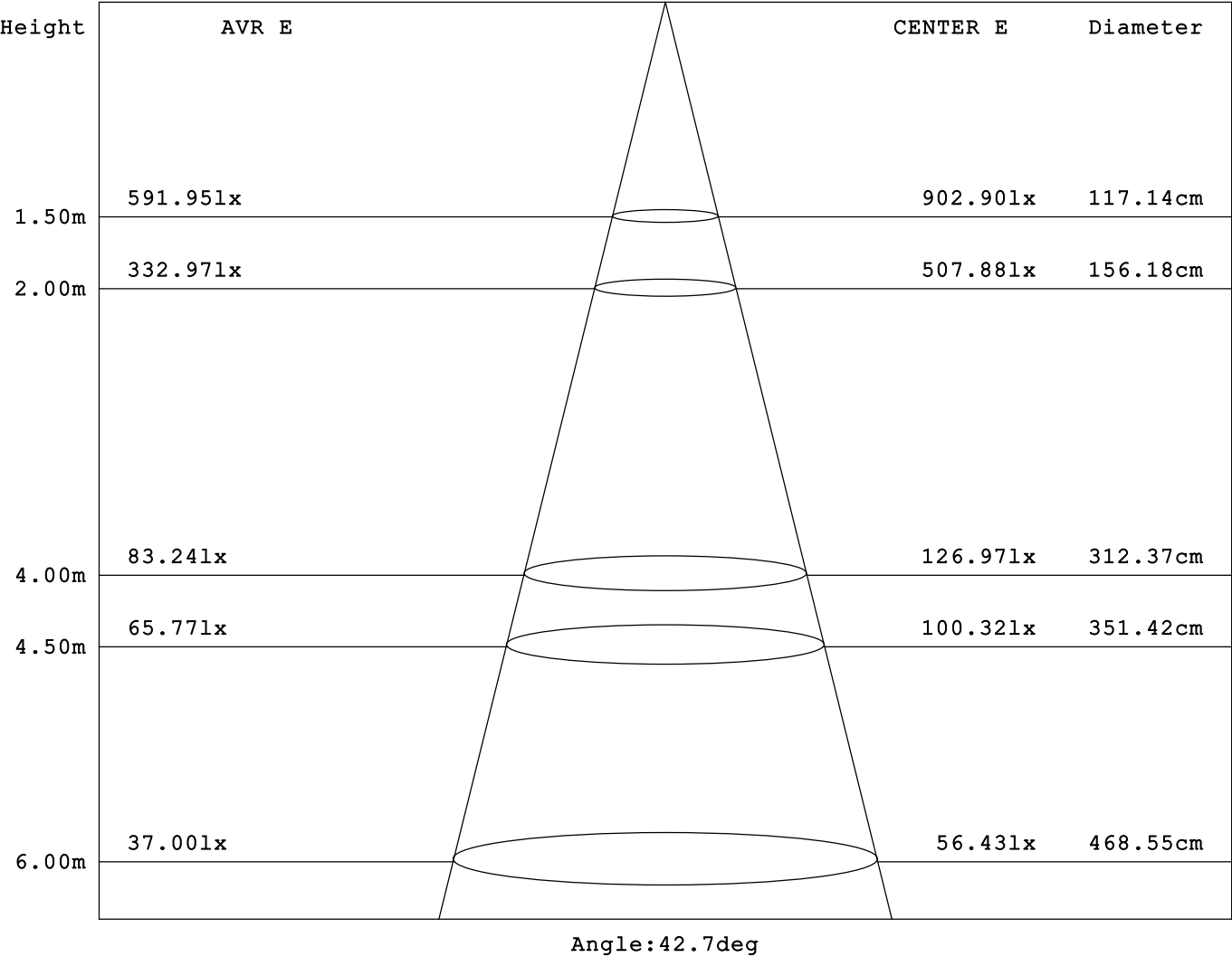
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Temperature:25.3DEG
Operators:
Test Date:09-25-2025

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Test Distance:8.500 m
Remarks: 4000K

AVERAGE AND CENTER E Figure

Report number:

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1702	1650	1636	1704	1821	1868	1851	1792	0- 10	181.1	181.1
20.0	1021	973.8	975.0	1069	1188	1238	1230	1133	10- 20	400.0	581.2
30.0	238.2	156.4	232.3	359.8	454.6	507.9	491.2	378.6	20- 30	333.0	914.2
40.0	40.96	34.24	30.05	38.76	38.43	46.02	51.00	39.26	30- 40	81.30	995.5
50.0	22.39	18.02	14.95	20.08	19.72	23.69	26.80	20.51	40- 50	22.67	1018
60.0	11.92	8.706	6.791	10.98	11.12	13.18	15.67	11.19	50- 60	14.12	1032
70.0	7.586	5.346	3.540	5.852	5.924	6.755	8.453	5.816	60- 70	8.130	1040
80.0	4.985	3.323	1.950	3.540	3.973	3.973	5.274	3.468	70- 80	5.102	1046
90.0	3.468	2.384	1.517	2.312	3.757	2.420	3.179	2.095	80- 90	3.309	1049
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:09-25-2025

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

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

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	464	174
80	287	112
75	237	100
70	222	104
65	222	115
60	238	136
55	302	194
50	348	233
45	430	303

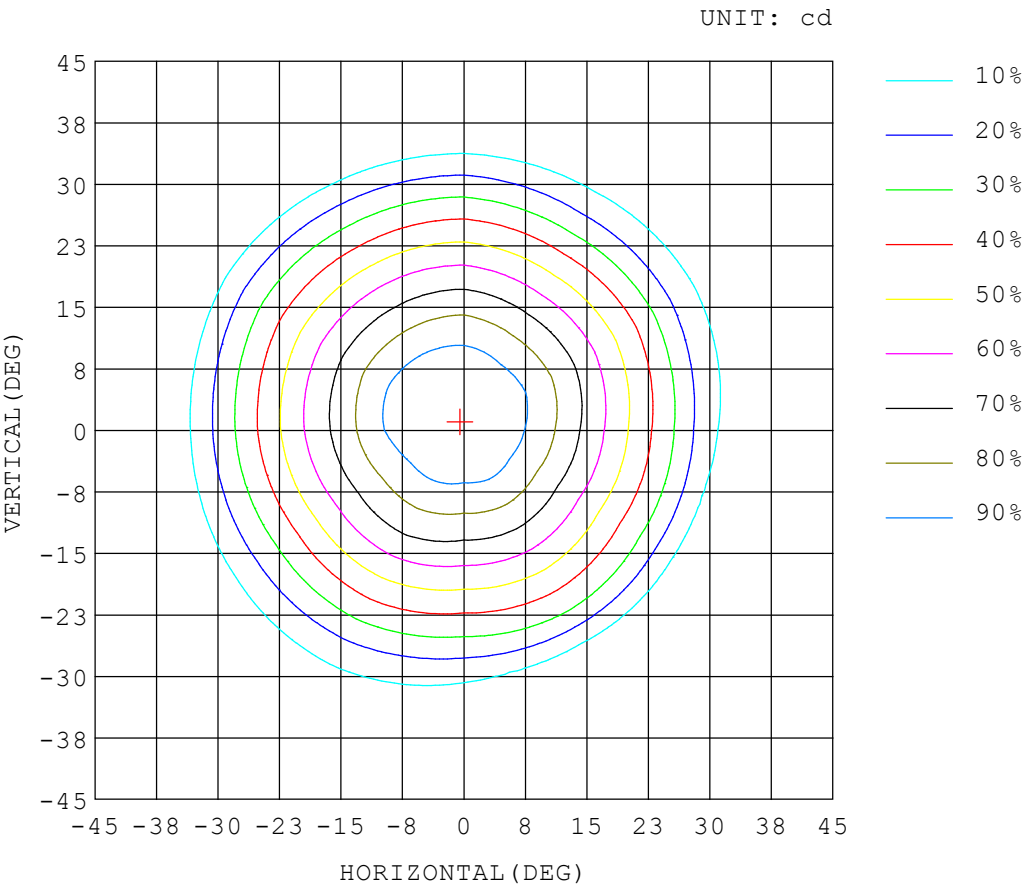
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ISOCANDELA DIAGRAM

Report number:

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:



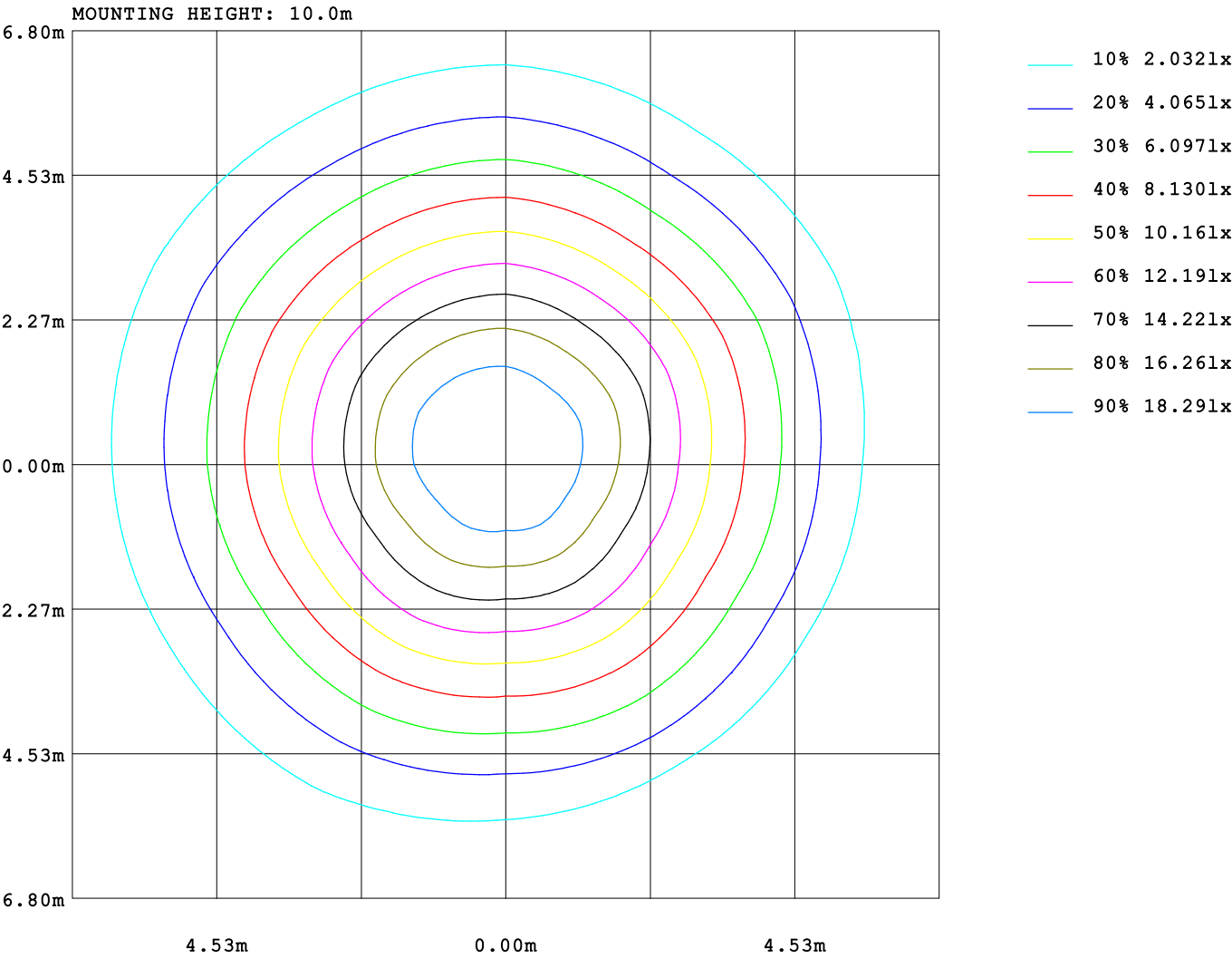
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Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																			
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																			
NAME: GE MACTY										TYPE: 4000K CRI-90					WEIGHT:				
SPECIFICATION: OSRAM 250 MA										DIMENSION: D-69 H-150 MM					SERIAL No.:				

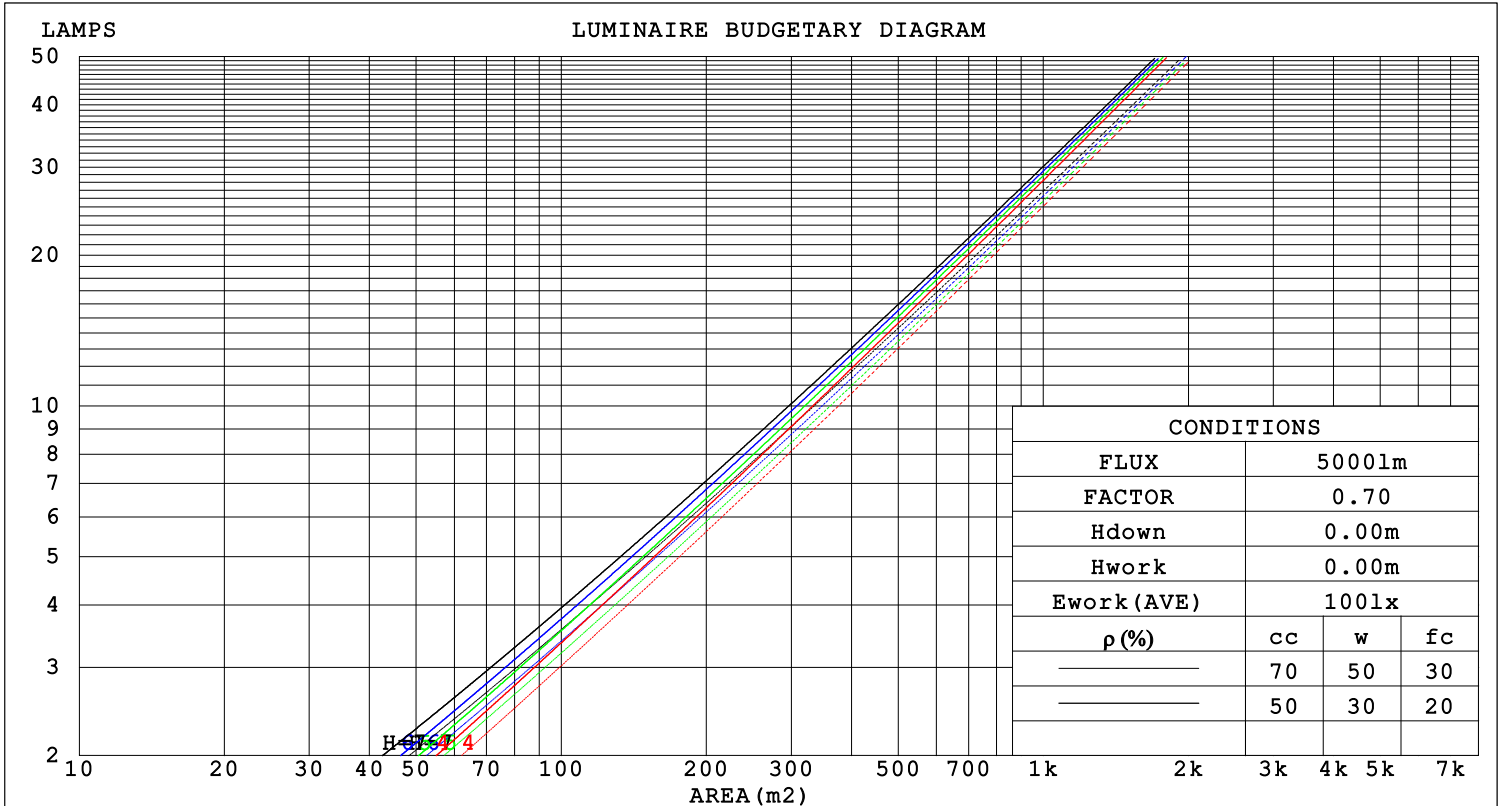
VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.10	0.12	0.14	0.16	0.18	0.21	0.25	0.29	0.32	0.32	0.28	0.24	0.19	0.16	0.14	0.12	0.10	0.09	3.39	0.00		
45																						
40																						
35																						
30																						
25																						
20																						
15																						

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

Report number:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pcf	20%			20%			20%			20%			20%			0
RCR	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.88	.92	.89	.87	.90	.88	.86	.84
4.0	.93	.88	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.86	.84	.81	.80
5.0	.88	.83	.80	.88	.83	.79	.86	.82	.78	.84	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.75	.83	.78	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.71	.80	.75	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
8.0	.77	.71	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.73	.69	.67	.66
9.0	.73	.68	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.64	.61	.68	.64	.61	.68	.64	.61	.60



Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

WEC AND CCEC

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: GE MACTY							TYPE: 4000K CRI-90					WEIGHT:		
SPECIFICATION: OSRAM 250 MA							DIMENSION: D-69 H-150 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	.167	.095	.030	.160	.091	.029	.148	.085	.027	.136	.078	.025	.125	.073	.023	
2.0	.156	.086	.026	.151	.083	.026	.140	.078	.024	.130	.073	.023	.122	.069	.022	
3.0	.147	.078	.023	.142	.076	.023	.133	.072	.022	.125	.069	.021	.117	.065	.020	
4.0	.138	.072	.021	.134	.070	.021	.127	.067	.020	.120	.064	.019	.113	.062	.019	
5.0	.131	.067	.019	.128	.066	.019	.121	.063	.019	.115	.061	.018	.109	.058	.018	
6.0	.125	.062	.018	.122	.061	.018	.116	.059	.017	.111	.057	.017	.106	.056	.017	
7.0	.119	.059	.017	.116	.058	.016	.111	.056	.016	.106	.055	.016	.102	.053	.016	
8.0	.113	.055	.016	.111	.055	.015	.107	.053	.015	.102	.052	.015	.099	.051	.015	
9.0	.109	.053	.015	.107	.052	.015	.103	.051	.014	.099	.050	.014	.095	.048	.014	
10.0	.104	.050	.014	.102	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.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	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.039	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.038	.063	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.055	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.057	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.089	.053	.029	.077	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.500 m
 Remarks: 4000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: GE MACTY					TYPE: 4000K CRI-90			WEIGHT:			
SPECIFICATION: OSRAM 250 MA					DIMENSION: D-69 H-150 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		-0.6	0.2	-0.4	0.4	0.5	-0.4	0.4	-0.2	0.6	0.7
	3H	0.3	1.1	0.6	1.3	1.5	0.1	0.9	0.4	1.1	1.3
	4H	1.0	1.7	1.2	1.9	2.1	0.4	1.1	0.7	1.3	1.6
	6H	1.7	2.4	2.0	2.7	2.9	0.7	1.3	0.9	1.6	1.8
	8H	2.2	2.8	2.5	3.1	3.4	0.8	1.4	1.1	1.7	1.9
	12H	2.8	3.4	3.1	3.7	3.9	0.9	1.6	1.2	1.8	2.1
4H	2H	-0.4	0.3	-0.1	0.6	0.8	-0.2	0.5	0.1	0.8	1.0
	3H	0.6	1.3	0.9	1.5	1.8	0.8	1.4	1.1	1.7	1.9
	4H	1.3	1.9	1.7	2.2	2.5	1.3	1.9	1.6	2.2	2.5
	6H	2.2	2.8	2.6	3.1	3.4	1.8	2.3	2.2	2.6	3.0
	8H	2.8	3.3	3.2	3.6	4.0	2.0	2.5	2.4	2.9	3.2
	12H	3.5	4.0	3.9	4.3	4.7	2.3	2.7	2.7	3.1	3.5
8H	4H	1.5	2.0	1.9	2.3	2.7	1.5	2.0	1.9	2.4	2.7
	6H	2.5	2.9	2.9	3.3	3.7	2.4	2.8	2.9	3.2	3.6
	8H	3.1	3.4	3.5	3.8	4.3	2.9	3.3	3.4	3.7	4.1
	12H	4.0	4.3	4.4	4.7	5.2	3.5	3.8	3.9	4.2	4.7
12H	4H	1.6	2.0	2.0	2.4	2.8	1.5	2.0	1.9	2.3	2.7
	6H	2.6	2.9	3.0	3.4	3.8	2.5	2.9	3.0	3.3	3.7
	8H	3.2	3.5	3.7	4.0	4.4	3.2	3.5	3.6	3.9	4.4
Variations with the observer position at spacings:											
S = 1.0H		+ 0.6 / - 0.5					+ 0.5 / - 0.5				
1.5H		+ 0.9 / - 1.0					+ 0.4 / - 0.6				
2.0H		+ 1.6 / - 1.1					+ 0.7 / - 1.1				

CIE Pub.117 Corrected 1049 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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Temperature:25.3DEG
Operators:
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UTILIZATION FACTORS TABLE

Report number:

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	79	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	98	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	101	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

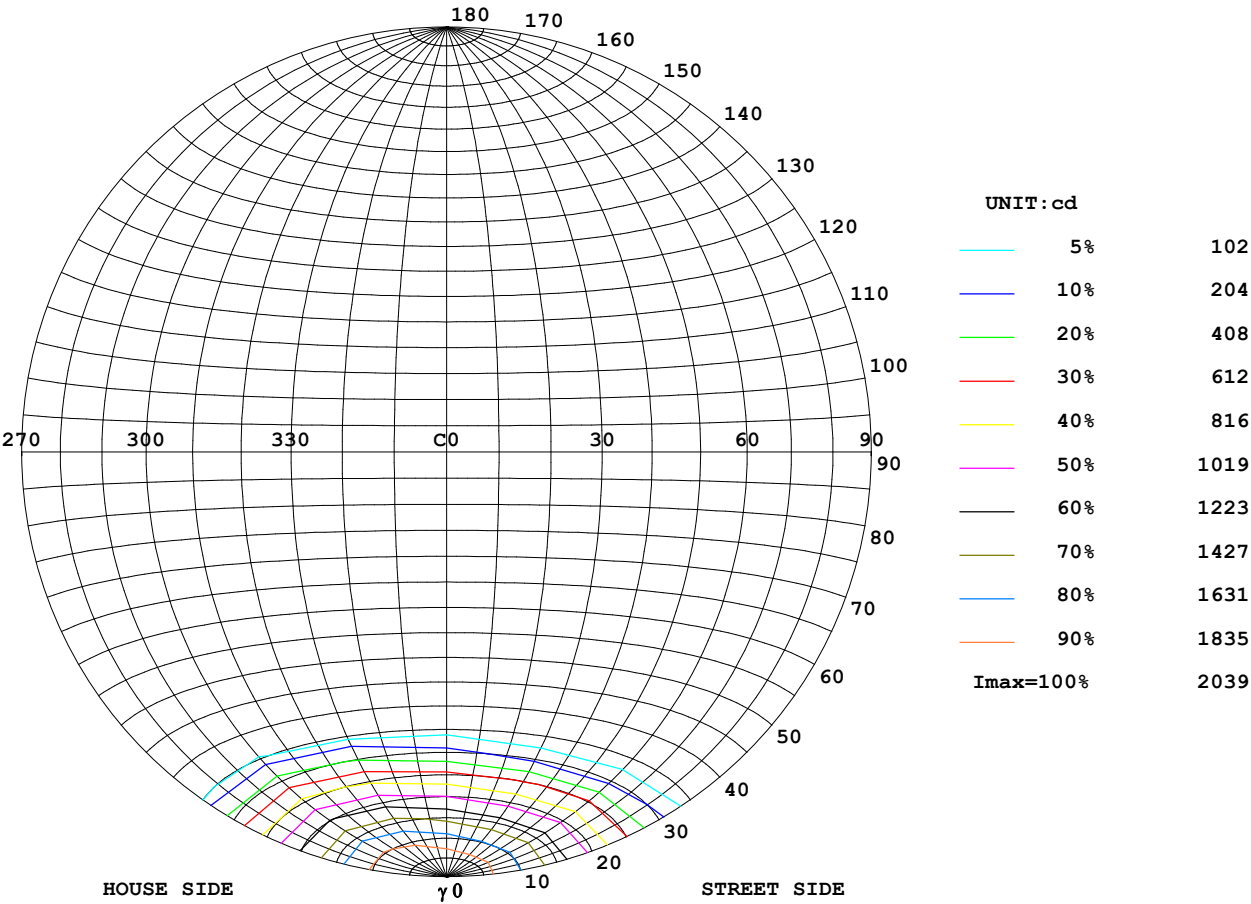
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ISOCANDELA DIAGRAM

Report number:

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

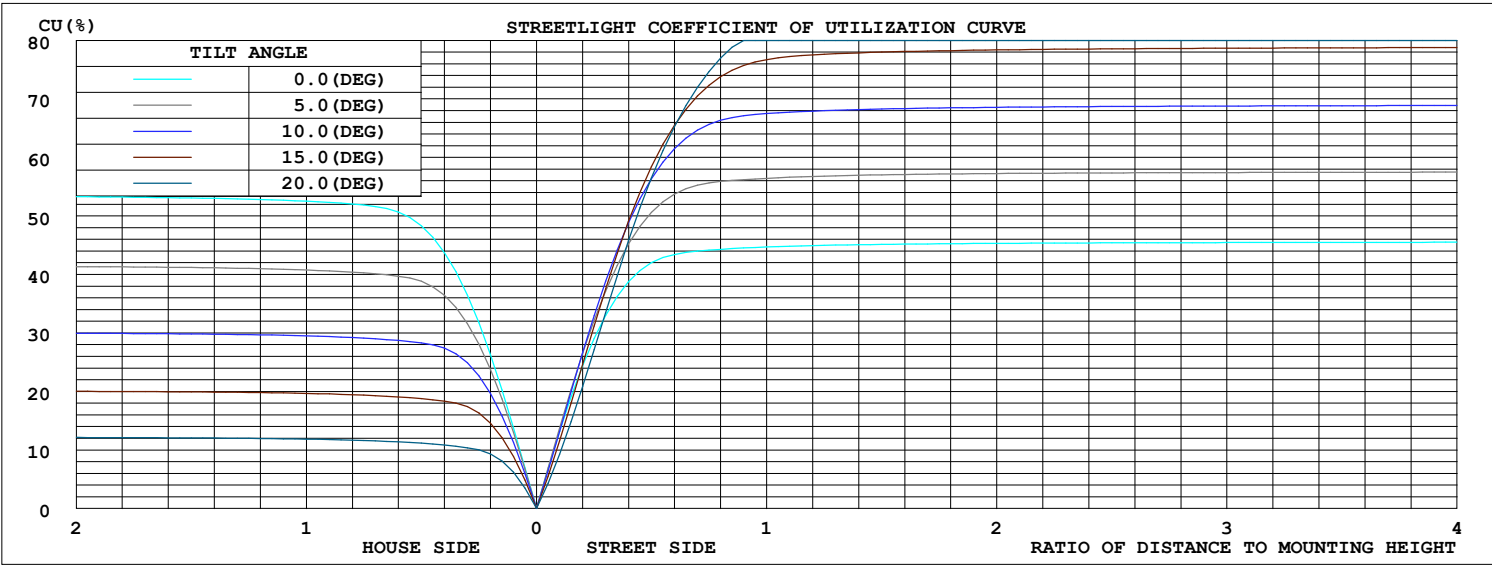
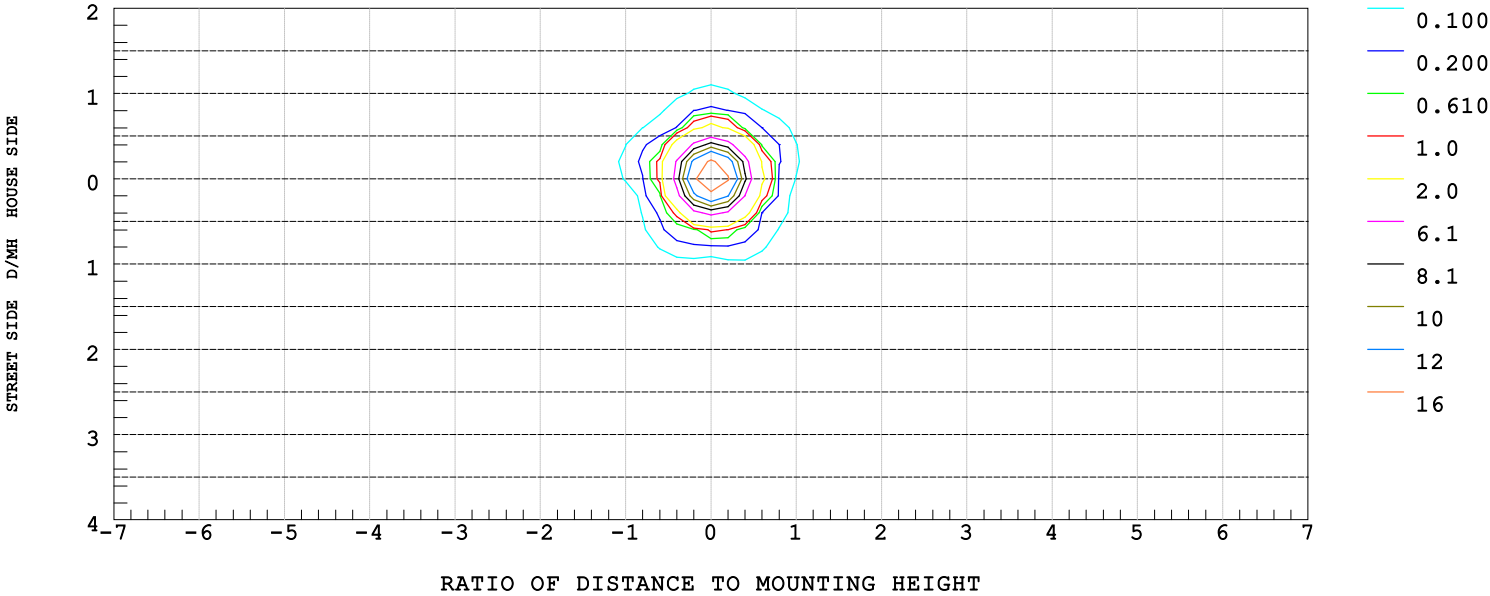
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ISOLUX DIAGRAM

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NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 20.32 lx



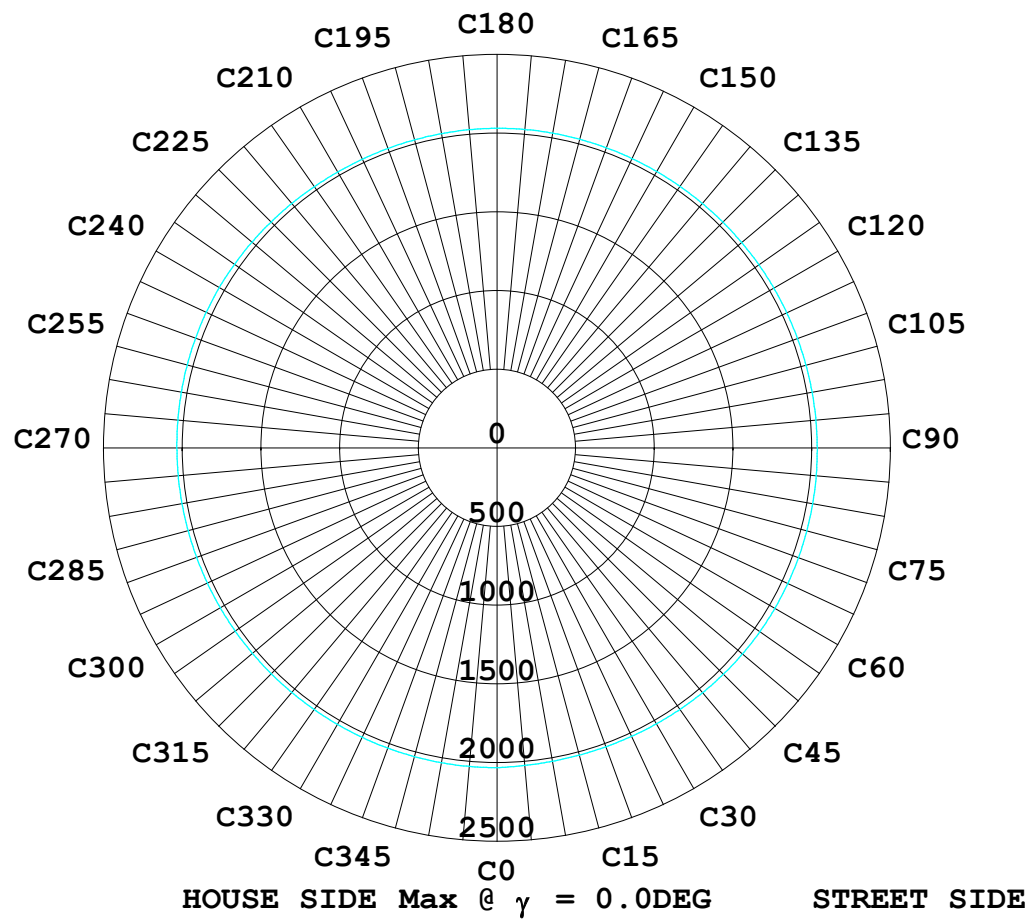
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-25-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: GE MACTY	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-69 H-150 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2032	2025	2039	2035	2031	2029	2032	2025	2039	2035	2031	2029
5.0	1951	1920	1927	1909	1941	1961	2002	2023	2030	2025	1992	1987
10.0	1702	1644	1656	1636	1690	1718	1821	1871	1864	1851	1801	1784
15.0	1368	1311	1336	1326	1402	1422	1509	1575	1571	1577	1504	1468
20.0	1021	959	988	975	1053	1084	1188	1242	1233	1230	1148	1118
25.0	665	605	637	623	706	723	826	886	864	871	783	770
30.0	238	163	150	232	341	378	455	525	491	491	392	365
35.0	59.5	41.0	57.5	44.8	66.4	55.0	80.9	130	100	106	61.0	70.0
40.0	40.9	28.7	39.7	30.0	43.7	33.8	38.4	53.3	38.7	51.0	34.3	44.1
45.0	30.4	20.2	29.3	21.4	32.0	24.1	27.6	38.1	27.7	36.8	24.6	32.3
50.0	22.3	14.3	21.6	14.9	23.3	16.8	19.7	27.9	19.4	26.8	17.2	23.7
55.0	17.3	10.6	16.5	11.1	17.9	12.7	14.9	21.0	14.3	20.5	12.8	18.3
60.0	11.9	6.21	11.1	6.79	13.2	8.74	11.1	16.1	10.2	15.6	9.03	13.3
65.0	9.39	4.69	8.88	4.84	9.60	5.56	7.44	11.1	6.28	10.7	5.56	9.60
70.0	7.58	3.54	7.15	3.54	7.58	4.11	5.92	8.88	4.62	8.45	4.04	7.58
75.0	6.14	2.67	5.70	2.60	6.06	3.03	4.76	7.00	3.46	6.64	2.96	5.92
80.0	4.98	2.02	4.62	1.95	4.84	2.23	3.97	5.49	2.45	5.27	2.16	4.76
85.0	4.04	1.51	3.82	1.51	3.90	1.66	3.39	4.40	1.73	4.11	1.44	3.68
90.0	3.46	1.66	3.10	1.51	3.17	1.44	3.75	3.32	1.51	3.17	1.37	2.81

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