

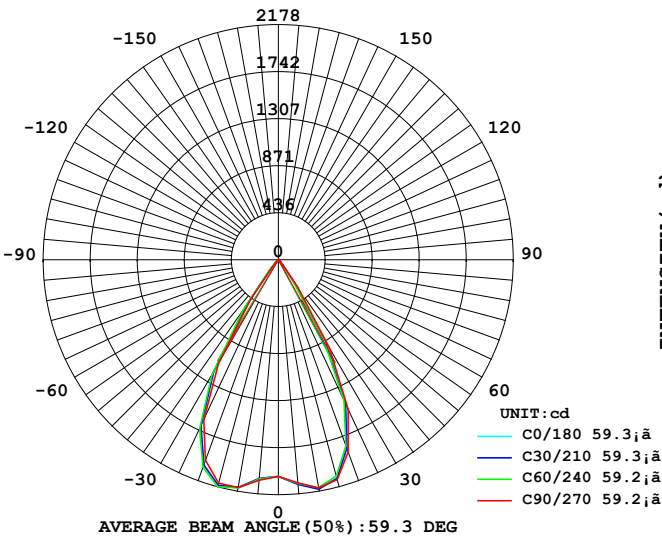
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

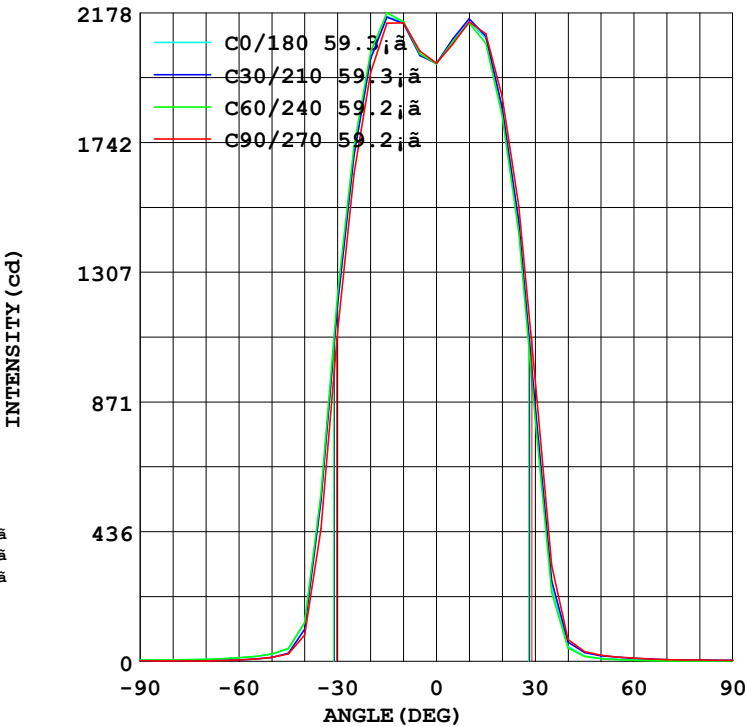
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	2178	S/MH (C0/180)	0.91
MODEL	GE 100	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.89
NOMINAL POWER (W)	20	TOTAL FLUX (lm)	1831.0	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	90.2	Current (A)	0.085
NOMINAL FLUX (lm)	1831.0	η up (%)	0.0	Power (W)	20.29
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.997
TEST VOLTAGE (V)	219.8	Effective Flux (lm)	1753.9	EEI	0.158

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 07-24-2025

Test Set: 5.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.400 m
Remarks: 3000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

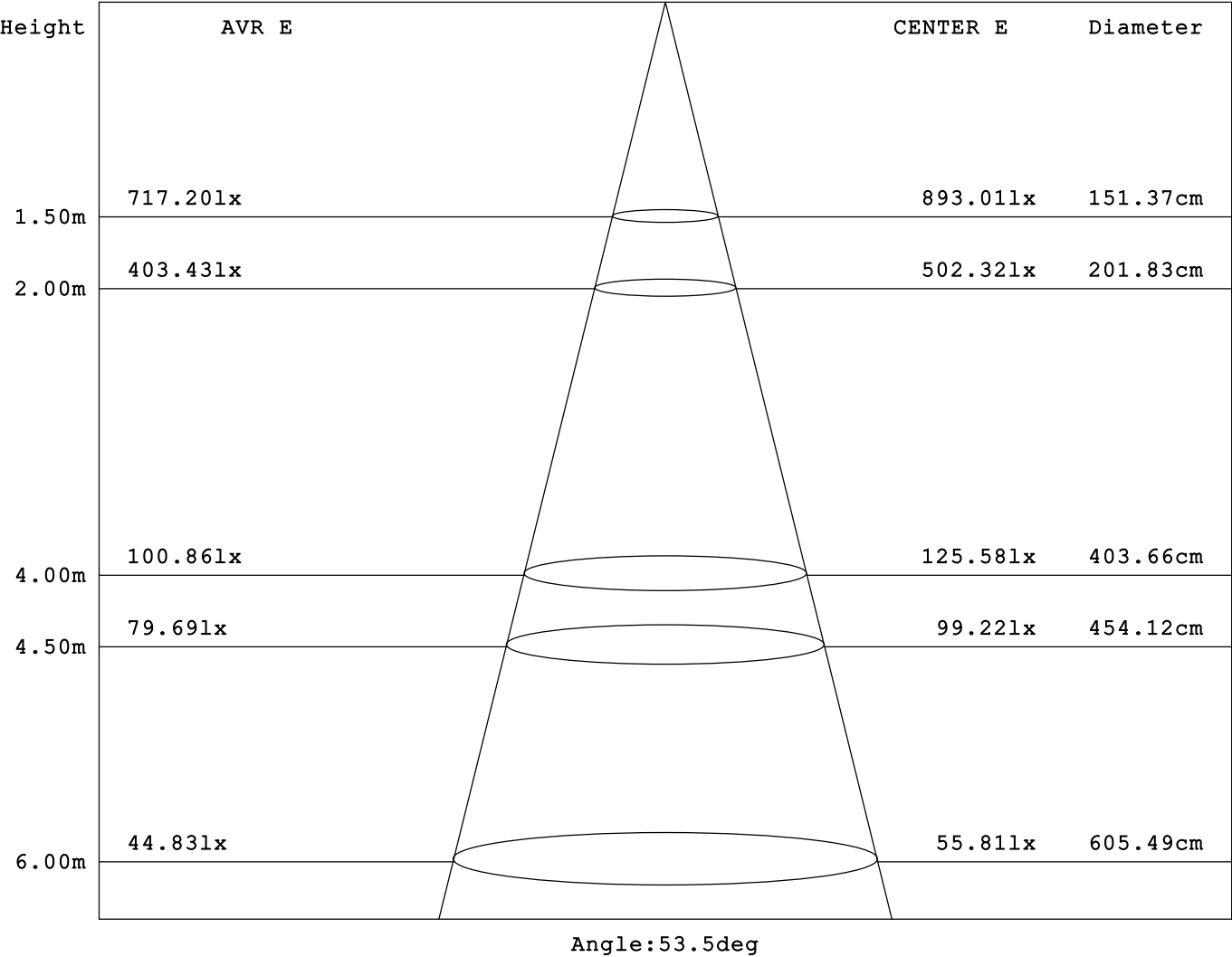
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

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Humidity:65.0%
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AVERAGE AND CENTER E Figure

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.400 m
Remarks: 3000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2146	2145	2144	2153	2148	2151	2147	2132	0- 10	199.2	199.2
20.0	2026	2035	1977	1903	1853	1846	1897	1955	10- 20	587.8	787.0
30.0	1205	1219	1109	949.4	849.7	840.9	949.9	1101	20- 30	699.5	1487
40.0	129.9	118.9	88.97	72.53	49.67	54.50	73.45	95.07	30- 40	289.7	1776
50.0	24.41	19.29	13.12	16.05	10.51	14.32	20.67	17.35	40- 50	30.51	1807
60.0	12.20	8.678	4.939	7.585	5.080	7.161	10.86	8.184	50- 60	10.69	1818
70.0	7.197	4.656	2.046	4.198	2.892	3.986	6.420	4.339	60- 70	5.951	1824
80.0	5.362	3.457	1.552	3.316	2.751	2.998	4.727	3.034	70- 80	3.942	1827
90.0	4.727	3.457	2.328	3.386	3.951	2.751	3.739	2.822	80- 90	3.544	1831
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:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Test Distance:8.400 m
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LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

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	575	194
80	309	89
75	232	60
70	210	60
65	220	73
60	244	99
55	293	144
50	380	204
45	595	356

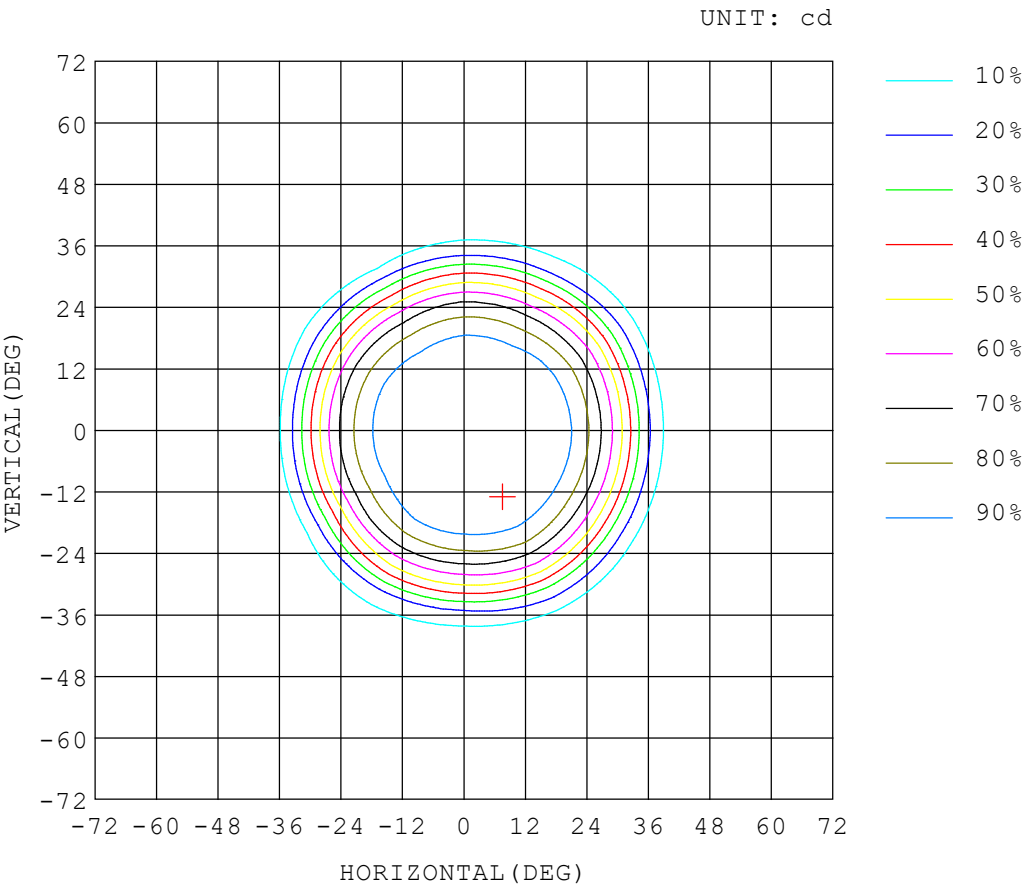
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

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

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:



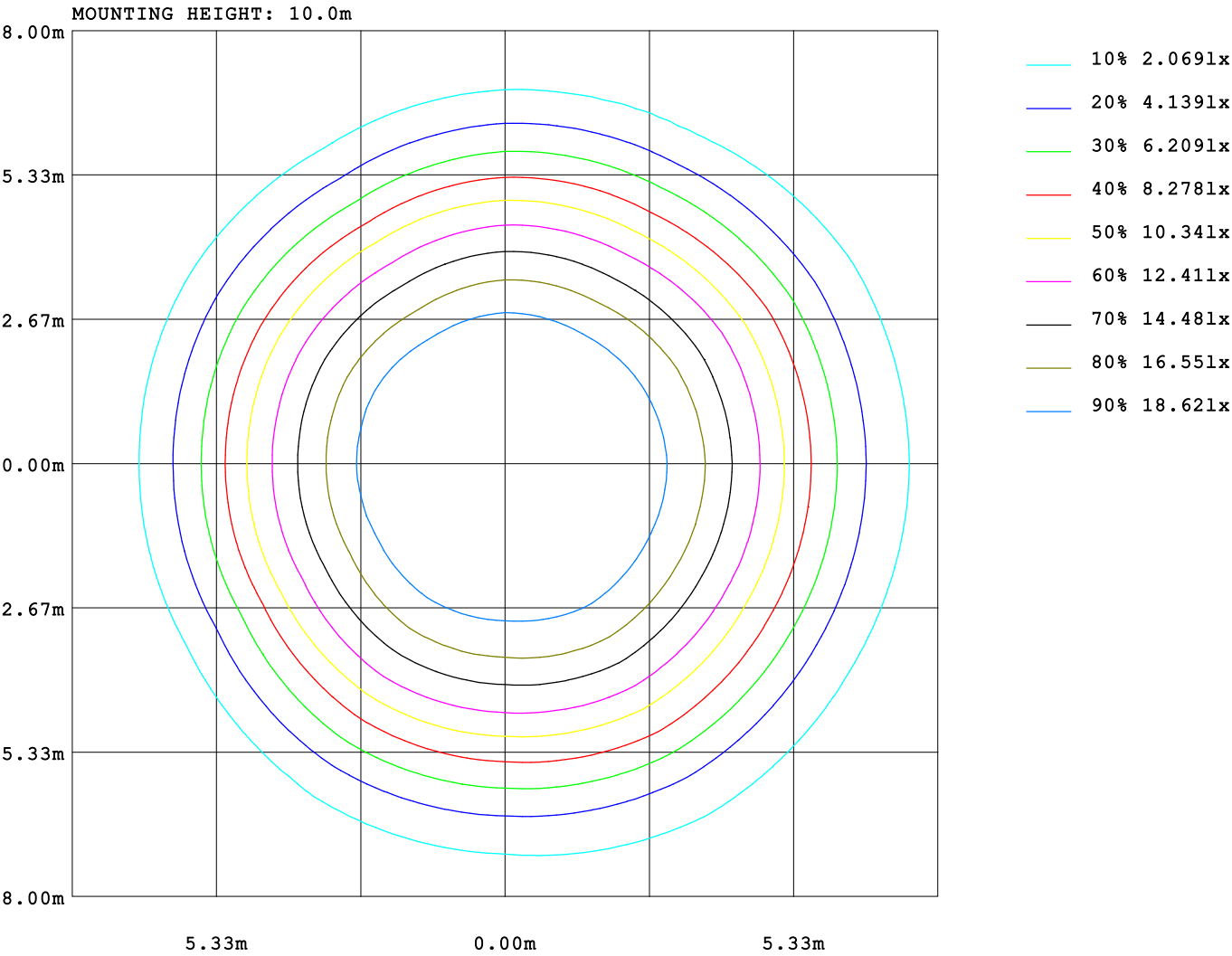
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Temperature:25.3DEG
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Humidity:65.0%
Test Distance:8.400 m
Remarks: 3000K

ISOLUX DIAGRAM

Report number:

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NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.400 m
Remarks: 3000K

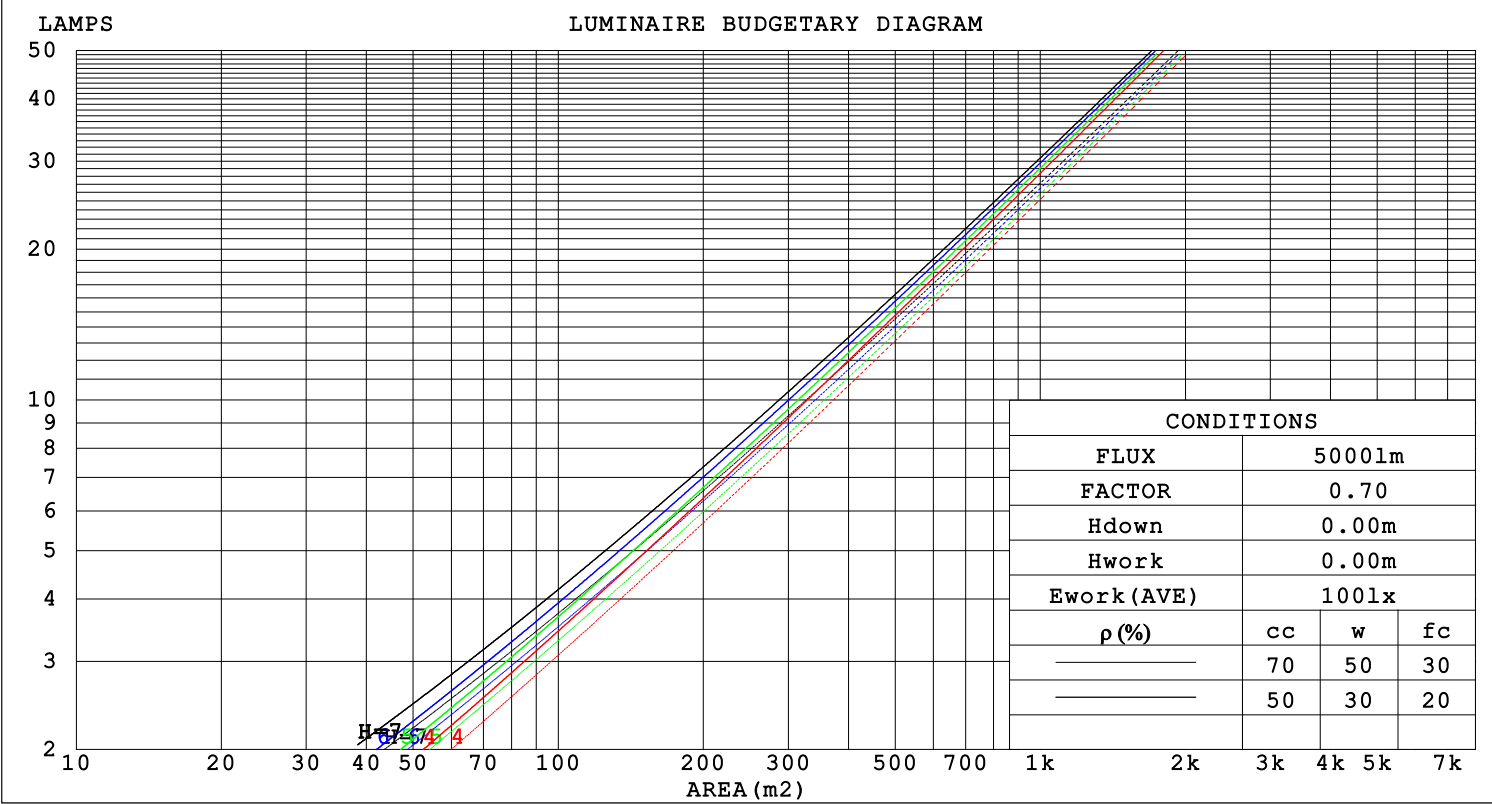
Report number:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS															
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019															
NAME: GE 100 DOWNLIGHTER								TYPE: 3000K CRI-90				WEIGHT:			
SPECIFICATION: FULHAM 600 MA								DIMENSION: D-114 CUTOUT-104 H-117 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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.83
4.0	.91	.86	.82	.90	.86	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.78
5.0	.86	.81	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.76	.72	.80	.75	.71	.79	.74	.71	.78	.74	.70	.76	.73	.70	.69
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.69	.66	.73	.69	.66	.65
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.61
9.0	.69	.63	.60	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.58
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.54



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Test Distance:8.400 m
Remarks: 3000K

WEC AND CCEC

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019															
NAME: GE 100 DOWNLIGHTER								TYPE: 3000K CRI-90				WEIGHT:			
SPECIFICATION: FULHAM 600 MA								DIMENSION: D-114 CUTOUT-104 H-117 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	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.082	.026	.131	.076	.024	
2.0	.163	.089	.027	.158	.087	.027	.147	.082	.025	.137	.077	.024	.128	.073	.023	
3.0	.155	.082	.025	.150	.080	.024	.141	.076	.023	.133	.073	.022	.125	.069	.021	
4.0	.147	.076	.022	.143	.075	.022	.135	.072	.021	.128	.069	.021	.121	.066	.020	
5.0	.140	.071	.021	.137	.070	.020	.130	.068	.020	.124	.065	.019	.118	.063	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018	
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.017	.115	.059	.017	.111	.058	.017	
8.0	.123	.060	.017	.120	.059	.017	.116	.058	.017	.111	.056	.016	.107	.055	.016	
9.0	.118	.057	.016	.116	.056	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015	
10.0	.113	.054	.015	.111	.054	.015	.108	.053	.015	.104	.052	.015	.101	.051	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.074	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.061	.105	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.400 m
 Remarks: 3000K

Uncorrected UGR Table

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019											
NAME: GE 100 DOWNLIGHTER					TYPE: 3000K CRI-90			WEIGHT:			
SPECIFICATION: FULHAM 600 MA					DIMENSION: D-114 CUTOUT-104 H-117 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		8.2	9.1	8.4	9.3	9.4	7.6	8.5	7.8	8.7	8.8
	3H	8.1	8.9	8.3	9.1	9.3	7.5	8.3	7.7	8.5	8.7
	4H	8.0	8.8	8.3	9.0	9.2	7.4	8.2	7.7	8.4	8.6
	6H	8.0	8.7	8.3	9.0	9.2	7.3	8.1	7.6	8.3	8.5
	8H	8.0	8.7	8.3	9.0	9.2	7.3	8.0	7.6	8.2	8.5
	12H	8.1	8.8	8.4	9.0	9.3	7.3	7.9	7.6	8.2	8.5
4H	2H	8.0	8.7	8.2	9.0	9.2	7.4	8.2	7.6	8.4	8.6
	3H	7.8	8.5	8.1	8.8	9.0	7.3	7.9	7.6	8.2	8.5
	4H	7.8	8.4	8.1	8.7	9.0	7.2	7.8	7.6	8.1	8.4
	6H	7.8	8.3	8.2	8.7	9.0	7.2	7.7	7.6	8.0	8.4
	8H	7.8	8.3	8.2	8.7	9.1	7.2	7.7	7.6	8.0	8.4
	12H	8.0	8.4	8.4	8.8	9.2	7.2	7.6	7.6	8.0	8.4
8H	4H	7.7	8.2	8.1	8.5	8.9	7.1	7.6	7.5	8.0	8.3
	6H	7.7	8.1	8.1	8.5	8.9	7.1	7.6	7.6	7.9	8.4
	8H	7.7	8.1	8.2	8.5	9.0	7.2	7.6	7.6	8.0	8.4
	12H	7.9	8.2	8.4	8.7	9.2	7.3	7.6	7.8	8.0	8.5
12H	4H	7.6	8.1	8.0	8.5	8.8	7.1	7.5	7.5	7.9	8.3
	6H	7.6	8.0	8.1	8.4	8.9	7.1	7.5	7.6	7.9	8.3
	8H	7.7	8.0	8.2	8.5	8.9	7.2	7.5	7.7	8.0	8.4
Variations with the observer position at spacings:											
S = 1.0H		+ 2.9 / - 3.2					+ 2.2 / - 2.8				
1.5H		+ 5.1 / - 3.6					+ 4.3 / - 3.0				
2.0H		+ 2.9 / - 1.2					+ 1.1 / - 1.2				

CIE Pub.117 Corrected 1831 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

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Operators:
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UTILIZATION FACTORS TABLE

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019										
NAME: GE 100 DOWNLIGHTER					TYPE: 3000K CRI-90			WEIGHT:		
SPECIFICATION: FULHAM 600 MA					DIMENSION: D-114 CUTOUT-104 H-117 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	84	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	106	110	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		

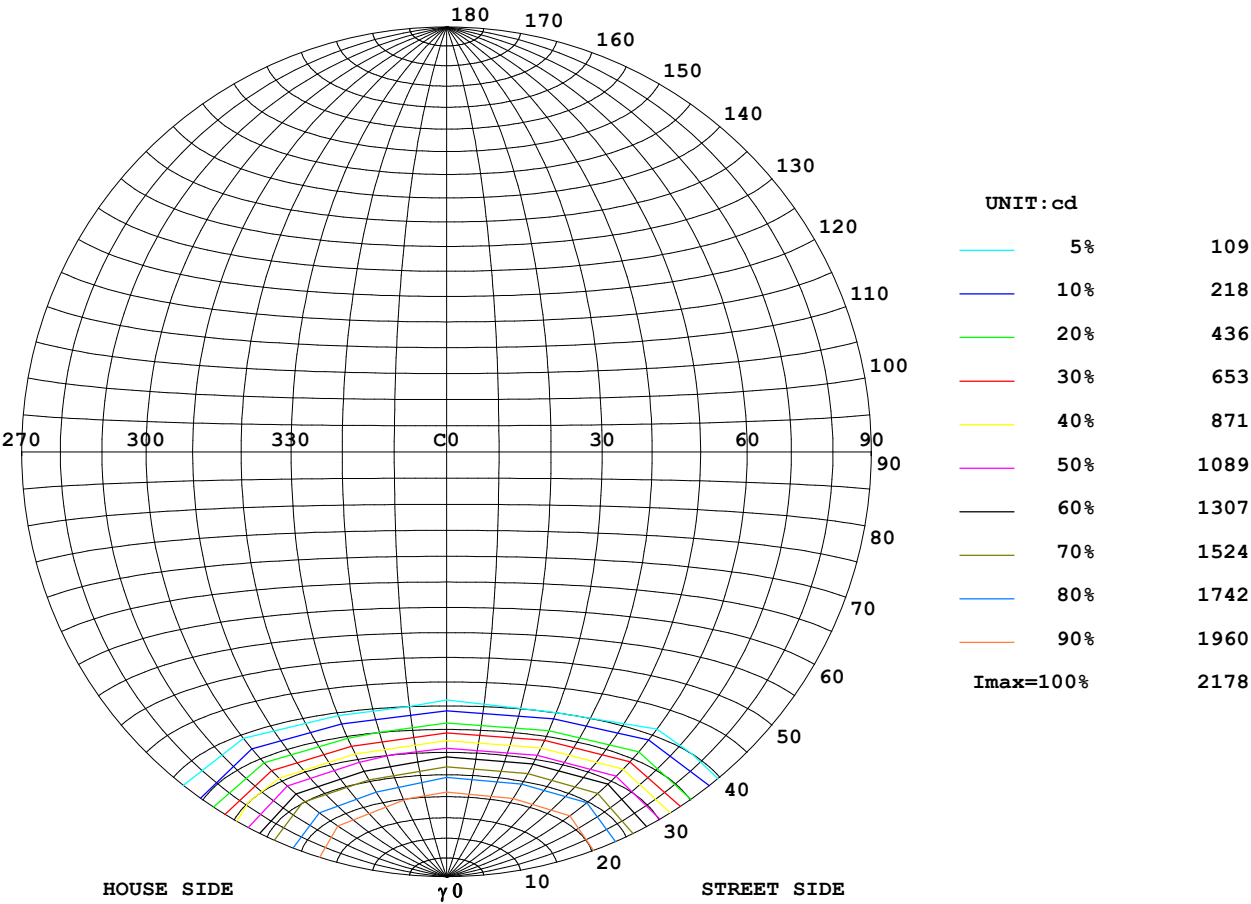
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ISOCANDELA DIAGRAM

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NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
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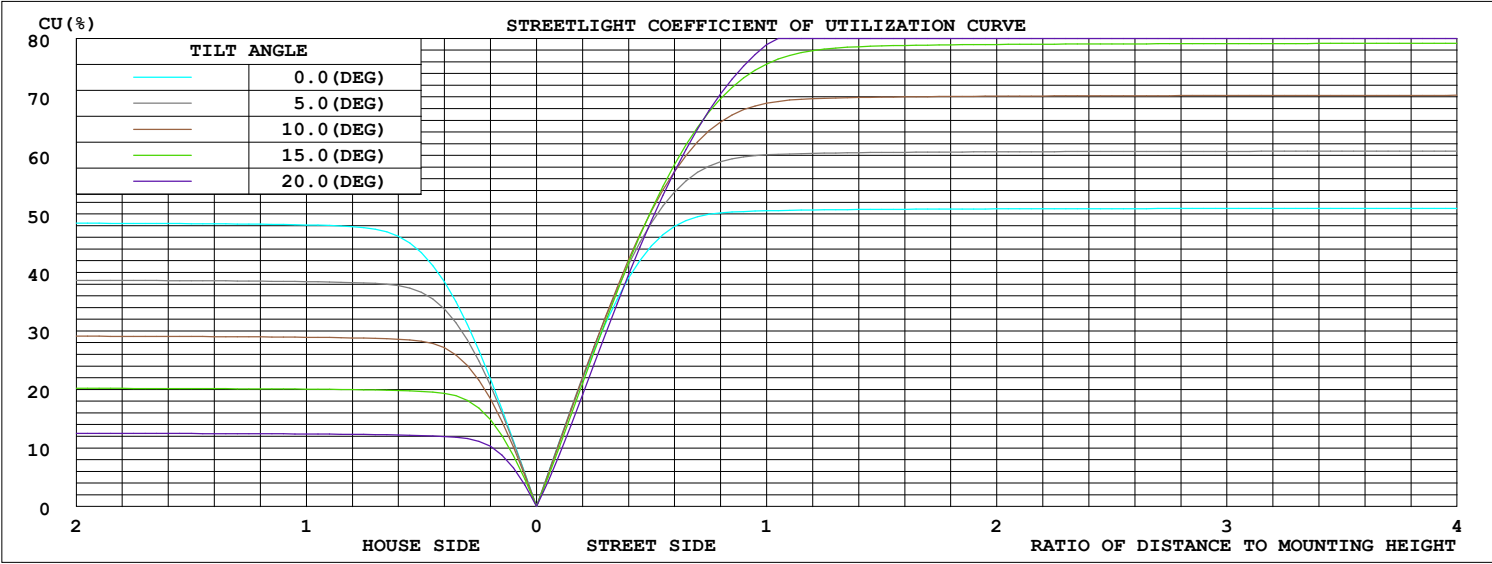
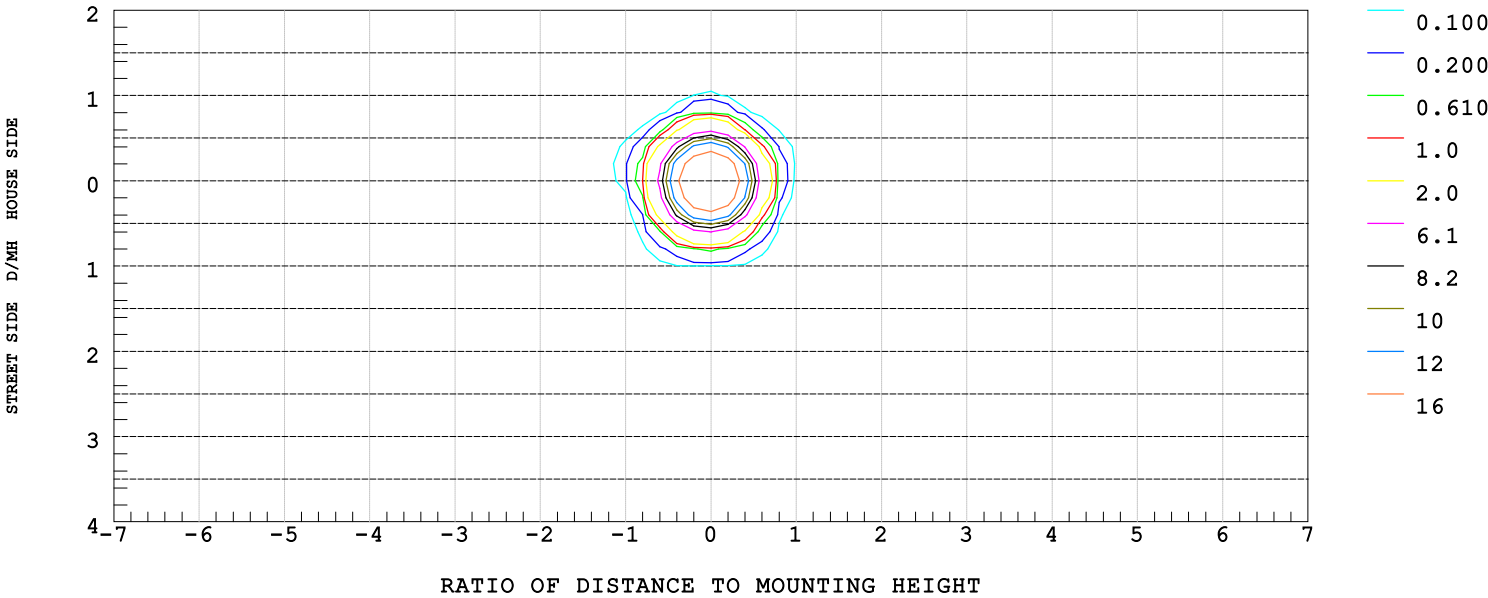
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ISOLUX DIAGRAM

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NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 20.09 lx



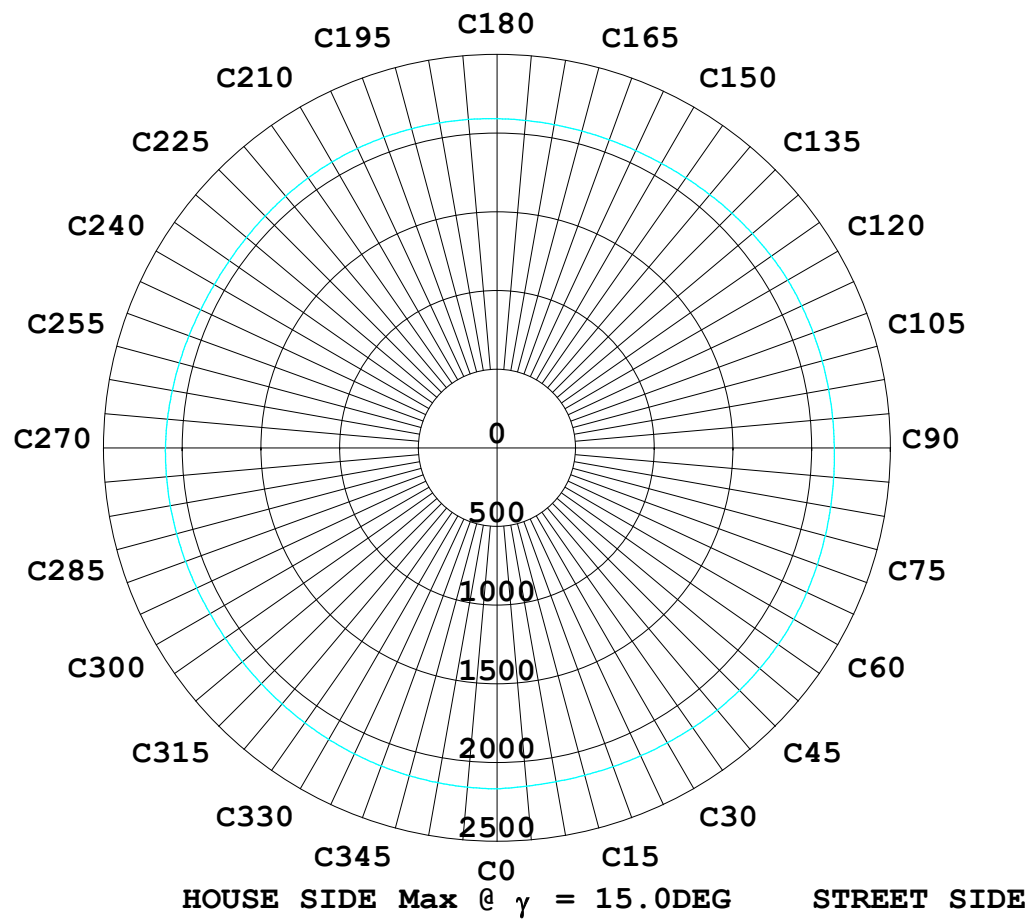
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Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.400 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-24-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.400 m
Remarks: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: GE 100 DOWNLIGHTER	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: D-114 CUTOUT-104 H-117 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2009	2008	2007	2008	2006	2009	2009	2008	2007	2008	2006	2009
5.0	2040	2034	2039	2050	2069	2087	2086	2090	2081	2073	2061	2042
10.0	2146	2141	2148	2144	2158	2148	2148	2158	2143	2147	2134	2130
15.0	2166	2164	2178	2143	2134	2088	2092	2099	2075	2108	2106	2139
20.0	2026	2023	2046	1977	1950	1857	1853	1860	1833	1897	1917	1993
25.0	1703	1699	1729	1635	1597	1473	1470	1478	1439	1530	1562	1685
30.0	1205	1201	1236	1109	1045	853	850	863	819	950	1012	1190
35.0	550	540	563	445	402	261	250	270	232	322	383	525
40.0	130	107	130	88.9	94.0	51.0	49.6	64.8	44.1	73.4	68.4	122
45.0	42.0	27.2	43.1	25.1	36.1	17.9	18.1	29.4	16.6	32.4	21.3	40.2
50.0	24.4	13.4	25.1	13.1	22.2	9.80	10.5	19.1	9.45	20.6	11.4	23.2
55.0	16.7	8.11	17.1	8.25	15.5	6.35	7.26	13.9	6.20	14.8	7.33	16.3
60.0	12.2	5.15	12.2	4.93	11.1	4.02	5.08	10.3	3.95	10.8	4.58	11.7
65.0	9.31	3.31	9.03	3.10	8.39	2.54	3.66	7.97	2.61	8.18	2.82	8.74
70.0	7.19	2.25	7.05	2.04	6.63	1.76	2.89	6.27	1.69	6.42	1.83	6.84
75.0	5.99	1.69	5.78	1.55	5.50	1.48	2.61	5.15	1.27	5.22	1.27	5.50
80.0	5.36	1.76	5.15	1.55	5.00	1.62	2.75	4.65	1.34	4.72	1.27	4.79
85.0	5.00	1.90	4.79	1.69	4.65	1.76	2.82	4.23	1.34	4.23	1.34	4.37
90.0	4.72	2.54	4.37	2.32	4.37	2.39	3.95	3.73	1.76	3.73	1.76	3.88

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Temperature:25.3DEG
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