

LUMINAIRE PHOTOMETRIC TEST REPORT

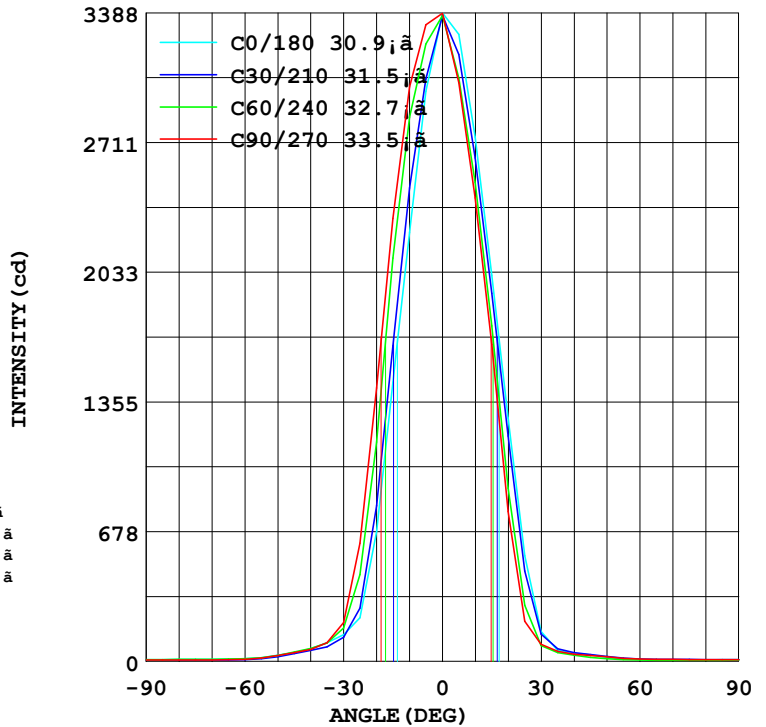
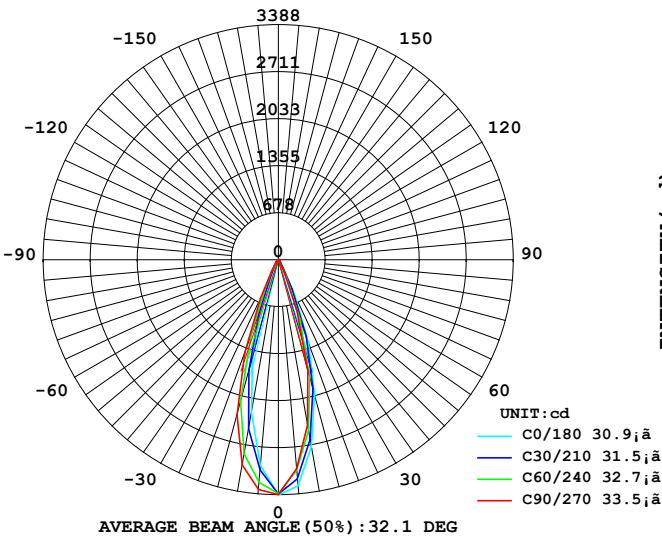
Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOOUT-84 H-104 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	3391	S/MH (C0/180)	0.45
MODEL	MONOCULARS HB	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.57
NOMINAL POWER (W)	12	TOTAL FLUX (lm)	1132.7	Voltage (V)	219.6
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	94.0	Current (A)	0.058
NOMINAL FLUX (lm)	1132.7	η up (%)	0.0	Power (W)	12.05
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.984
TEST VOLTAGE (V)	219.6	Effective Flux (lm)	976.4	EET	0.160

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 04-31-2026

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

Color Temperature Data List

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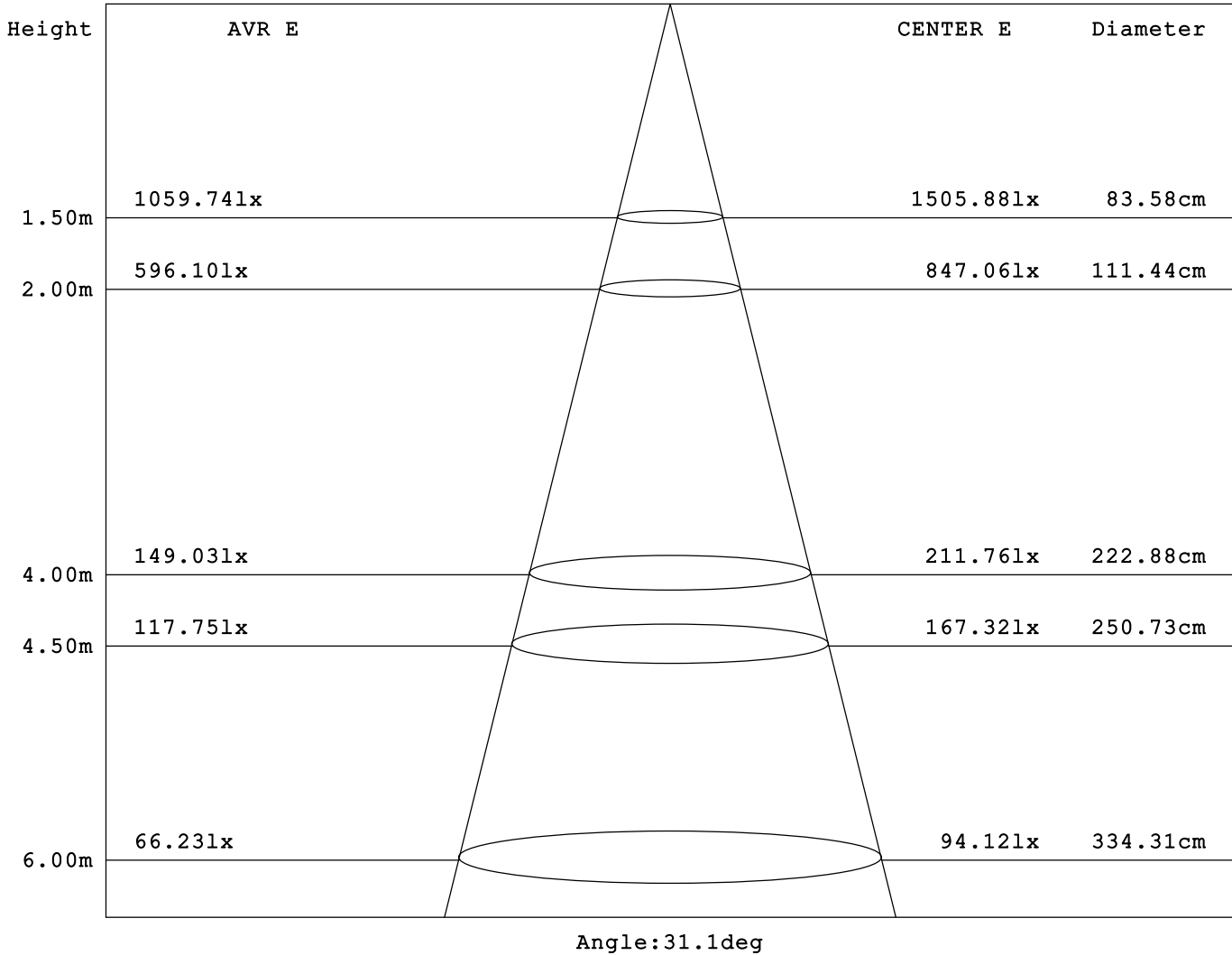
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AVERAGE AND CENTER E Figure

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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	2241	2658	3001	2981	2739	2566	2422	2298	0- 10	284.0	284.0
20.0	677.8	979.8	1428	1474	1271	1041	783.5	647.4	10- 20	506.6	790.7
30.0	139.8	150.4	203.1	201.8	156.1	112.5	89.82	83.55	20- 30	220.0	1011
40.0	66.17	62.53	62.53	47.95	41.87	39.32	38.07	31.83	30- 40	51.00	1062
50.0	32.56	27.78	31.50	27.90	21.30	19.44	23.40	19.56	40- 50	27.66	1089
60.0	14.82	12.35	10.85	11.90	10.12	10.12	12.79	10.04	50- 60	15.01	1104
70.0	11.34	9.112	7.047	8.991	8.181	8.586	10.36	8.383	60- 70	9.908	1114
80.0	10.28	8.626	6.885	8.424	8.343	8.181	9.396	7.978	70- 80	9.129	1124
90.0	9.801	8.869	7.533	8.505	9.639	8.059	8.829	8.100	80- 90	9.200	1133
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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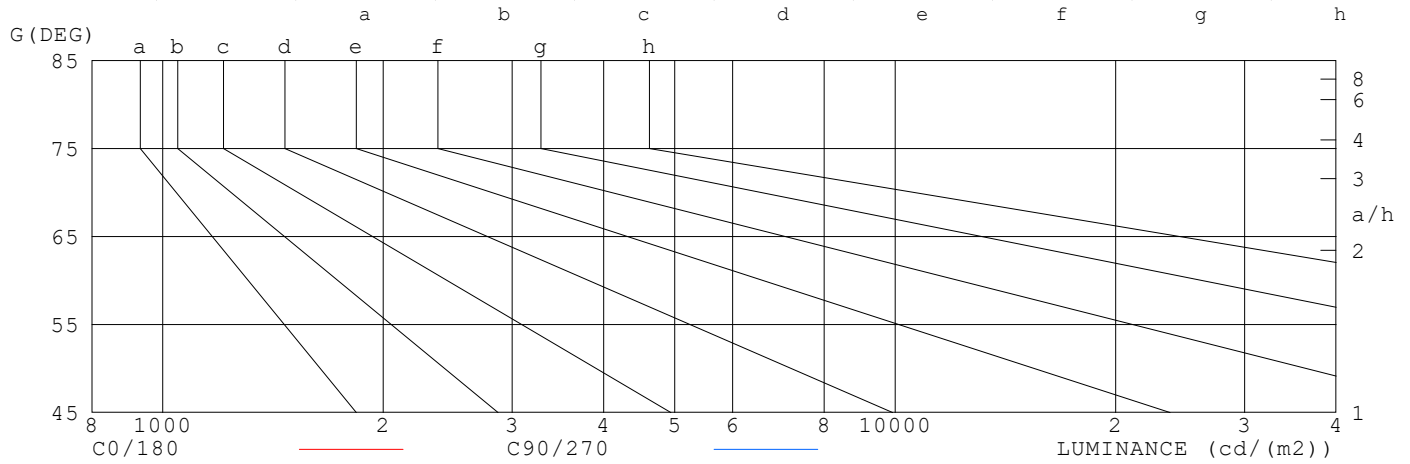
LUMINANCE LIMITATION CURVES

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	1143	790
80	592	396
75	410	260
70	332	206
65	299	201
60	296	217
55	345	299
50	507	490
45	644	660

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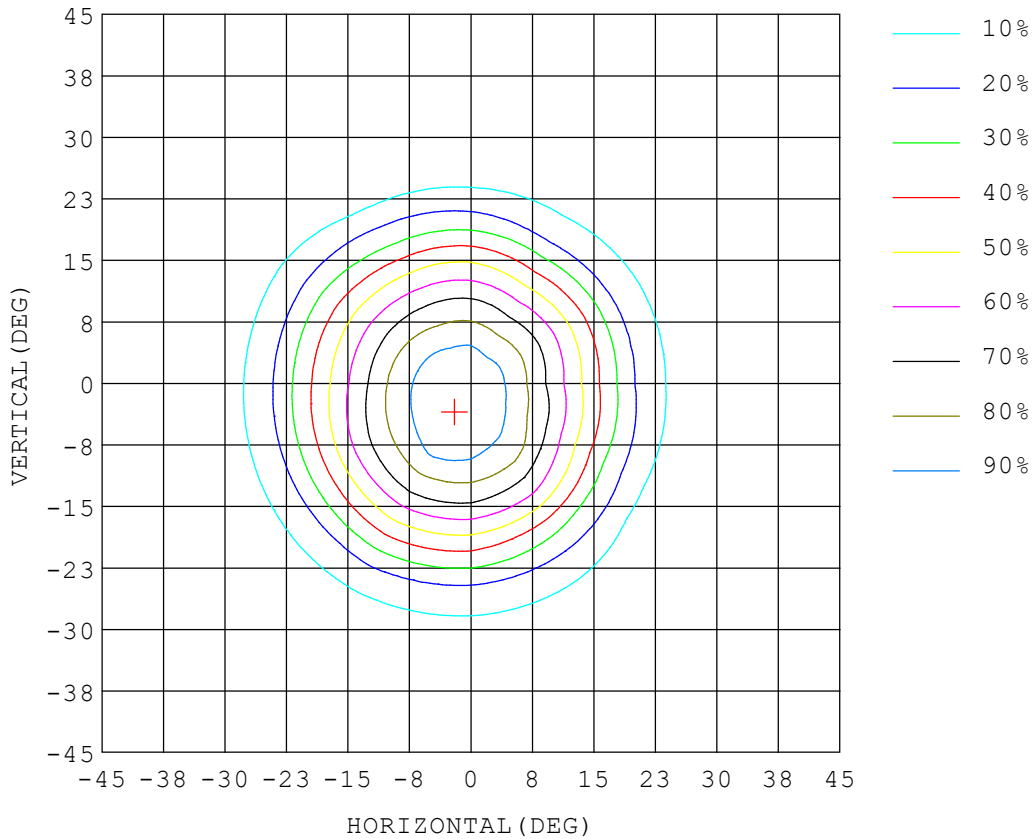
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ISOCANDELA DIAGRAM

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UNIT: cd



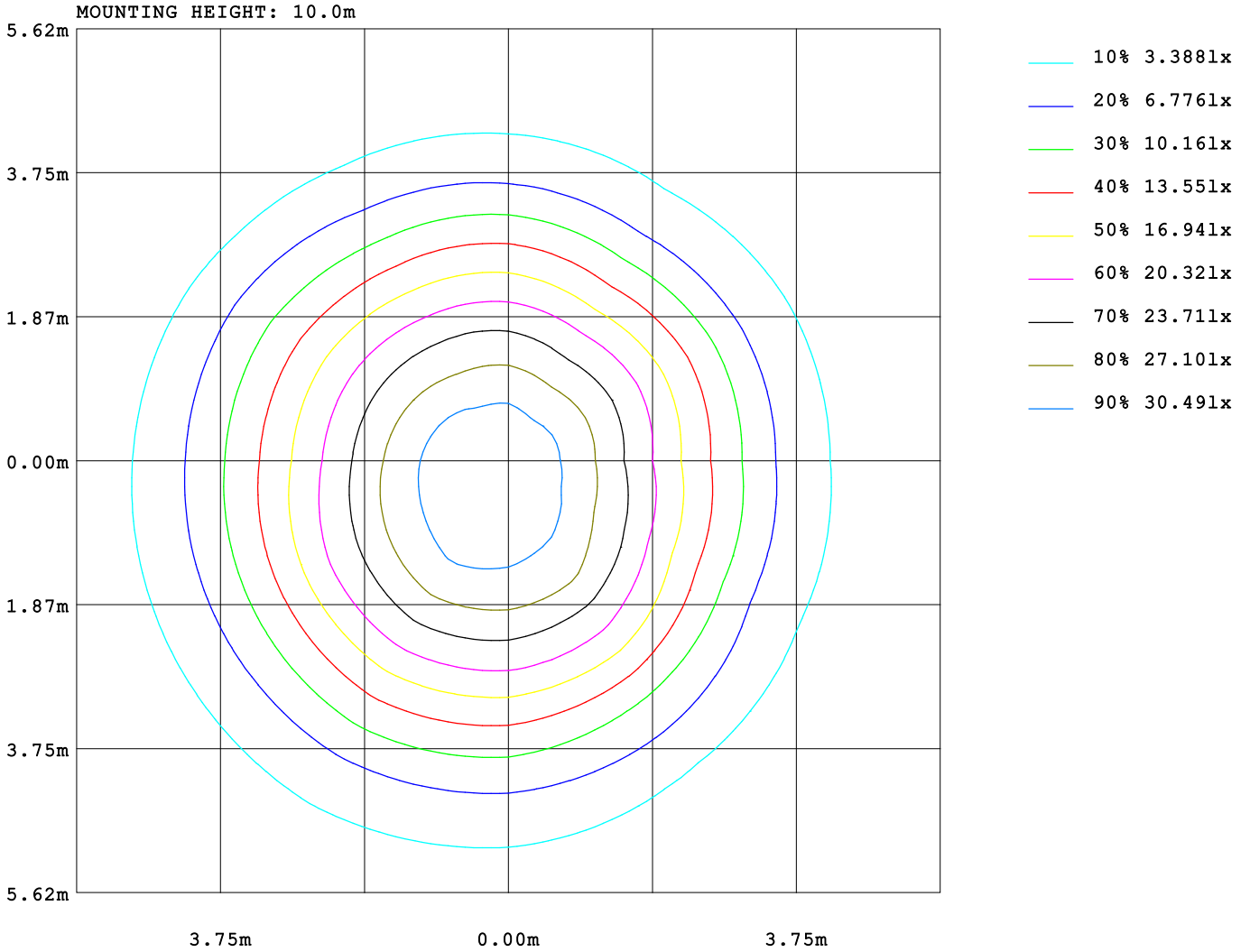
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ISOLUX DIAGRAM

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AREA LUMINOUS FLUX

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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	0.08	0.09	0.11	0.12	0.13	0.16	0.20	0.23	0.25	0.25	0.22	0.19	0.15	0.13	0.12	0.11	0.09	0.08	2.71	0.00	
40	0.10	0.12	0.15	0.17	0.19	0.23	0.27	0.31	0.34	0.32	0.28	0.22	0.17	0.16	0.16	0.14	0.12	0.10	3.57	0.00	
35	0.13	0.16	0.20	0.24	0.28	0.32	0.39	0.47	0.53	0.51	0.42	0.32	0.24	0.22	0.20	0.18	0.15	0.12	5.07	0.00	
30	0.15	0.21	0.26	0.32	0.41	0.53	0.76	1.05	1.16	1.07	0.86	0.58	0.41	0.33	0.27	0.22	0.19	0.15	8.93	0.00	
25	0.17	0.24	0.32	0.45	0.74	1.38	2.20	3.23	3.79	3.47	2.47	1.41	0.86	0.54	0.38	0.29	0.23	0.18	22.3	11.3	
20	0.19	0.26	0.39	0.73	1.68	3.44	5.84	7.95	9.20	8.59	6.28	3.81	1.92	0.96	0.57	0.39	0.28	0.21	52.7	45.6	
15	0.20	0.29	0.48	1.18	3.23	6.82	10.5	13.6	15.3	14.6	11.6	7.76	3.97	1.60	0.81	0.51	0.35	0.24	93.3	87.4	
10	0.21	0.30	0.60	1.80	4.93	9.77	14.6	18.5	20.4	19.6	16.4	11.6	6.19	2.47	1.04	0.63	0.41	0.27	130	125	
5	0.21	0.31	0.67	2.28	6.13	11.5	17.0	21.7	24.1	23.2	19.2	13.5	7.56	3.07	1.20	0.72	0.47	0.30	154	148	
0	0.21	0.30	0.69	2.38	6.40	12.0	17.9	22.8	25.4	24.2	19.8	13.9	7.81	3.21	1.24	0.74	0.48	0.31	160	155	
-5	0.20	0.28	0.63	2.06	5.66	11.1	17.0	21.6	24.0	23.1	19.0	12.9	6.91	2.80	1.15	0.68	0.44	0.29	150	145	
-10	0.18	0.26	0.50	1.45	4.18	8.75	13.9	18.2	20.0	19.3	15.9	10.3	5.16	1.99	0.94	0.58	0.40	0.27	123	117	
-15	0.17	0.22	0.36	0.90	2.51	5.51	9.49	12.7	14.1	13.4	10.5	6.63	3.19	1.40	0.72	0.48	0.35	0.24	82.9	76.5	
-20	0.15	0.19	0.28	0.56	1.21	2.74	4.92	6.78	7.73	7.20	5.40	3.31	1.78	0.93	0.57	0.40	0.29	0.20	44.6	37.2	
-25	0.13	0.17	0.24	0.39	0.69	1.18	1.90	2.68	3.10	2.90	2.24	1.51	0.98	0.66	0.47	0.35	0.24	0.16	20.0	7.81	
-30	0.11	0.16	0.22	0.31	0.46	0.68	0.88	1.05	1.13	1.10	0.98	0.80	0.64	0.50	0.39	0.29	0.19	0.12	10.0	0.00	
-35	0.09	0.14	0.20	0.26	0.35	0.44	0.52	0.58	0.61	0.61	0.58	0.53	0.47	0.39	0.31	0.22	0.15	0.10	6.52	0.00	
-40	0.07	0.11	0.16	0.22	0.28	0.33	0.37	0.40	0.41	0.42	0.41	0.39	0.35	0.29	0.22	0.16	0.11	0.08	4.76	0.00	
-45																					
	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45		
Φ t	2.74	3.81	6.46	15.8	39.5	77.0	119	154	172	164	133	89.9	48.7	21.6	10.7	7.08	4.95	3.40	1133		
Φ a	0.00	0.00	0.00	5.31	32.2	70.6	113	149	166	158	127	83.6	41.0	10.0	0.00	0.00	0.00	0.00		976	

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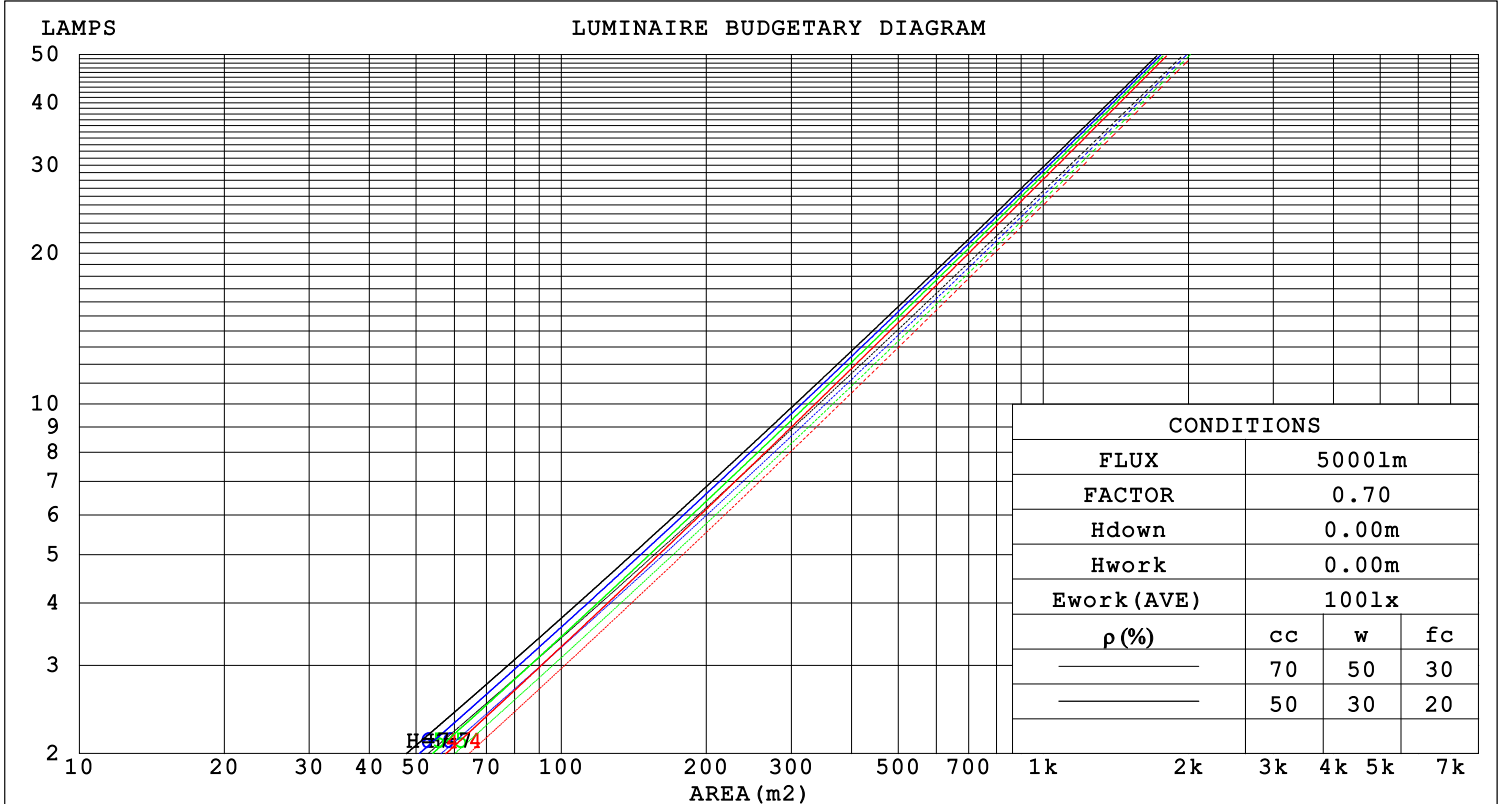
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.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	.90	.96	.92	.98	.95	.92	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.91	.87	.94	.90	.86	.92	.88	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.82	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.79	.77	.76
7.0	.84	.79	.75	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.70
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.70	.76	.72	.69	.75	.72	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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WEC AND CCEC

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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	.164	.093	.029	.157	.090	.028	.144	.083	.026	.133	.077	.025	.122	.071	.023	
2.0	.150	.082	.025	.144	.079	.024	.134	.074	.023	.124	.070	.022	.115	.065	.021	
3.0	.139	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.110	.061	.019	
4.0	.130	.067	.020	.126	.066	.019	.118	.063	.019	.111	.060	.018	.105	.057	.017	
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.054	.016	
6.0	.115	.058	.016	.112	.057	.016	.106	.055	.016	.101	.053	.015	.096	.051	.015	
7.0	.109	.054	.015	.106	.053	.015	.102	.051	.015	.097	.050	.014	.093	.048	.014	
8.0	.104	.051	.014	.101	.050	.014	.097	.049	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.044	.013	
10.0	.095	.045	.013	.093	.045	.013	.089	.044	.012	.086	.043	.012	.083	.042	.012	

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	.170	.157	.146	.146	.135	.126	.100	.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	.139	.113	.093	.119	.098	.081	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.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	2.2	2.9	2.4	3.1	3.2	2.7	3.5	3.0	3.7	3.8
	3H	3.1	3.8	3.3	4.0	4.2	3.3	4.0	3.6	4.2	4.4
	4H	4.0	4.6	4.2	4.9	5.1	3.8	4.5	4.1	4.7	5.0
	6H	5.3	5.9	5.6	6.1	6.4	4.7	5.3	5.0	5.5	5.8
	8H	6.1	6.7	6.4	7.0	7.2	5.2	5.8	5.5	6.1	6.3
	12H	7.2	7.8	7.5	8.0	8.3	6.0	6.6	6.3	6.8	7.1
4H	2H	2.3	3.0	2.6	3.2	3.4	2.9	3.6	3.1	3.8	4.0
	3H	3.5	4.1	3.8	4.3	4.6	3.9	4.5	4.2	4.8	5.0
	4H	4.5	5.1	4.9	5.4	5.7	4.8	5.3	5.1	5.6	5.9
	6H	6.1	6.6	6.5	6.9	7.3	5.9	6.4	6.3	6.8	7.1
	8H	7.2	7.6	7.5	8.0	8.3	6.7	7.1	7.0	7.5	7.8
	12H	8.4	8.9	8.9	9.2	9.6	7.6	8.0	8.0	8.4	8.8
8H	4H	5.0	5.4	5.4	5.8	6.1	5.2	5.7	5.6	6.0	6.4
	6H	6.7	7.1	7.2	7.5	7.9	6.9	7.2	7.3	7.6	8.1
	8H	7.9	8.3	8.4	8.7	9.1	7.9	8.2	8.3	8.6	9.1
	12H	9.5	9.8	10.0	10.2	10.7	9.1	9.4	9.6	9.9	10.3
12H	4H	5.1	5.6	5.5	5.9	6.3	5.3	5.7	5.7	6.1	6.5
	6H	7.0	7.4	7.5	7.8	8.2	7.1	7.4	7.5	7.9	8.3
	8H	8.3	8.6	8.8	9.0	9.5	8.3	8.6	8.8	9.0	9.5

Variations with the observer position at spacings:		
S = 1.0H	+ 0.3 / - 0.3	+ 0.4 / - 0.4
1.5H	+ 0.5 / - 0.3	+ 0.4 / - 0.3
2.0H	+ 0.8 / - 0.3	+ 0.6 / - 0.4

CIE Pub.117 Corrected 1133 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.4)

Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 04-31-2026

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOUT-84 H-104 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	81	78	87	81	78	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

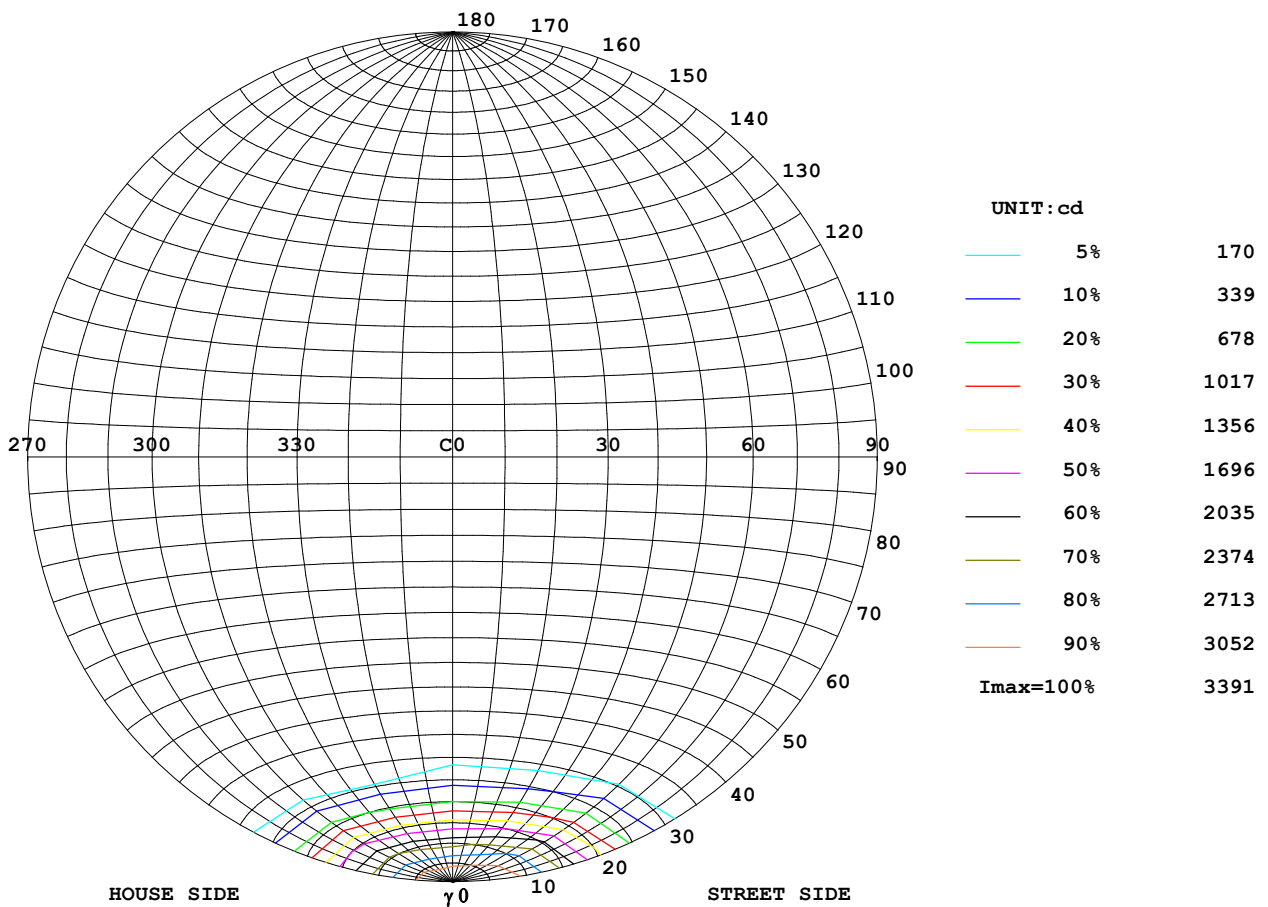
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 04-31-2026

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOUT-84 H-104 MM	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 04-31-2026

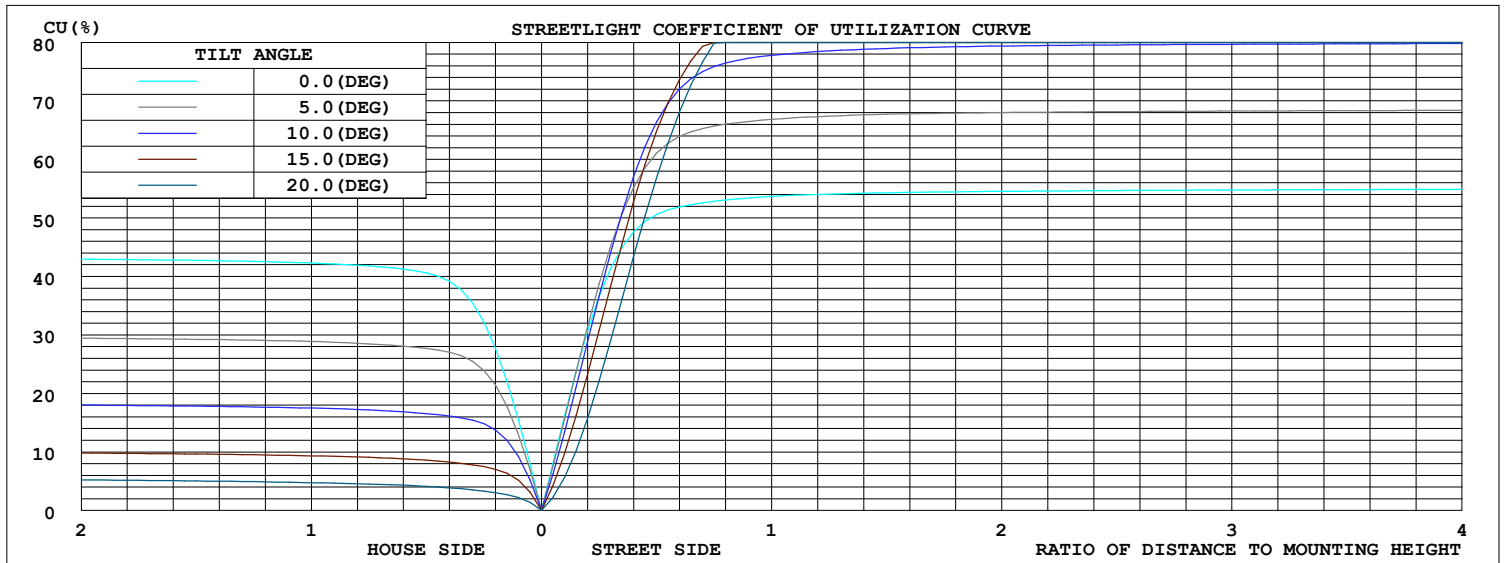
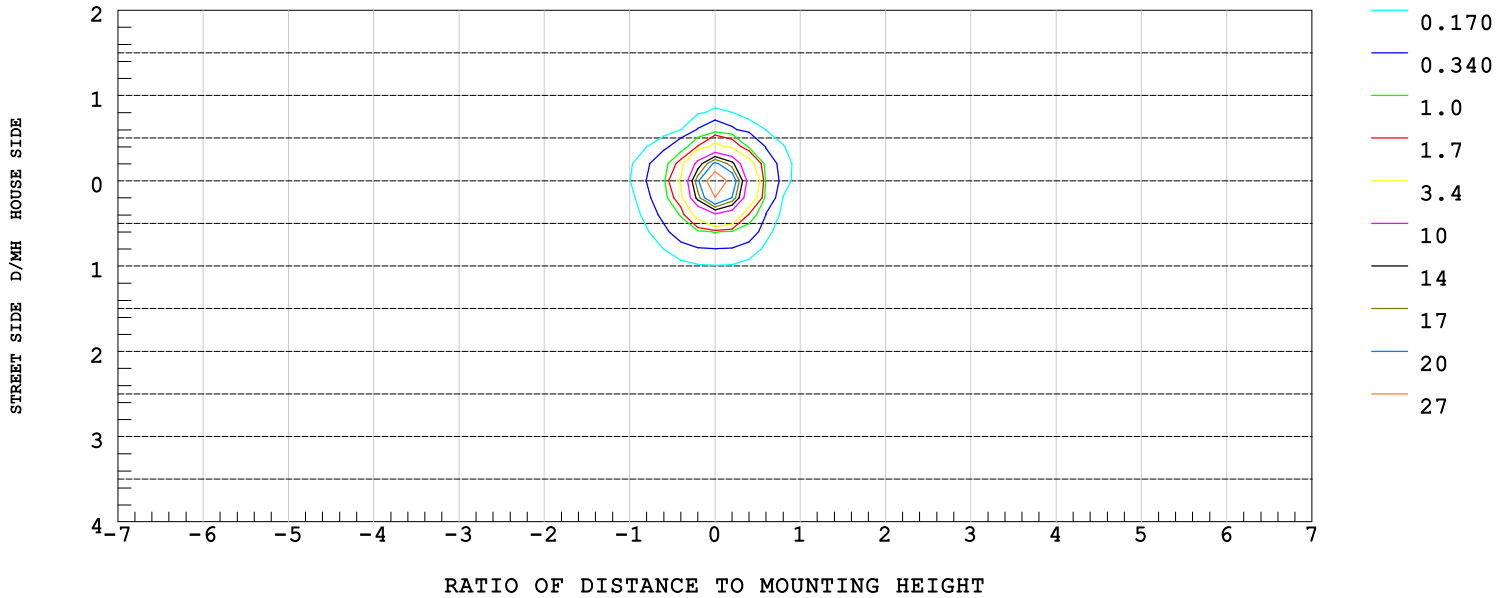
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOUT-84 H-104 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 33.88 lx



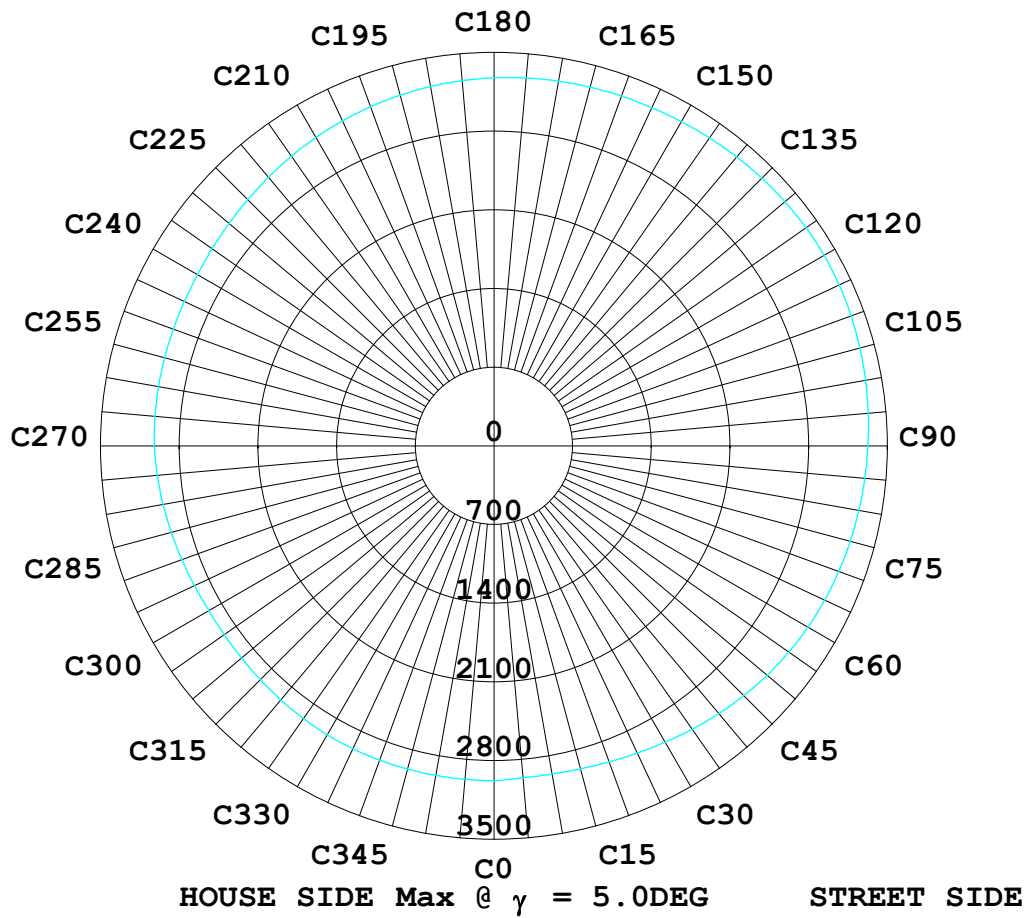
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 04-31-2026

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOUT-84 H-104 MM	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 04-31-2026

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 5700K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,Rajasthan301019		
NAME: MONOCULARS HB	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250MA	DIMENSION: D-75 CUTOUT-84 H-104 MM	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	3388	3375	3374	3386	3389	3385	3388	3375	3374	3386	3389	3385
5.0	2978	3043	3225	3326	3391	3331	3275	3170	3047	3022	2931	2969
10.0	2241	2474	2843	3001	3067	2895	2739	2631	2501	2422	2283	2314
15.0	1459	1649	2106	2315	2398	2262	2017	1924	1753	1655	1457	1520
20.0	678	814	1146	1428	1541	1407	1271	1177	906	784	618	677
25.0	228	279	454	617	709	634	553	472	293	210	181	220
30.0	140	126	175	203	217	187	156	142	82.9	89.8	64.7	102
35.0	97.2	76.7	95.9	97.5	107	62.7	58.4	65.5	46.5	52.4	34.1	59.8
40.0	66.1	57.5	67.4	62.5	61.5	34.3	41.8	46.0	32.6	38.0	22.9	40.7
45.0	45.5	40.6	49.5	46.6	45.5	27.5	34.2	35.3	20.4	31.1	19.3	32.3
50.0	32.5	24.5	31.0	31.5	34.0	21.7	21.3	25.2	13.6	23.4	15.0	24.0
55.0	19.7	14.6	19.5	17.1	21.3	13.3	13.1	16.9	9.63	15.5	8.58	16.7
60.0	14.8	9.96	14.7	10.8	15.3	8.50	10.1	13.2	7.04	12.7	6.96	13.1
65.0	12.6	8.01	12.3	8.50	12.8	7.37	8.50	11.5	6.56	11.0	6.48	11.6
70.0	11.3	7.12	11.0	7.04	11.3	6.64	8.18	10.6	6.48	10.3	6.39	10.3
75.0	10.6	7.04	10.3	6.72	10.5	6.72	8.18	10.0	6.64	9.80	6.39	9.88
80.0	10.2	7.20	10.0	6.88	10.0	6.80	8.34	9.71	6.64	9.39	6.39	9.55
85.0	9.96	7.45	9.71	6.88	9.80	6.88	8.50	9.39	6.64	9.15	6.56	9.31
90.0	9.80	8.26	9.47	7.53	9.47	7.53	9.63	8.99	7.12	8.82	7.04	9.15

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:04-31-2026

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.000 m
 Remarks: 5700K