

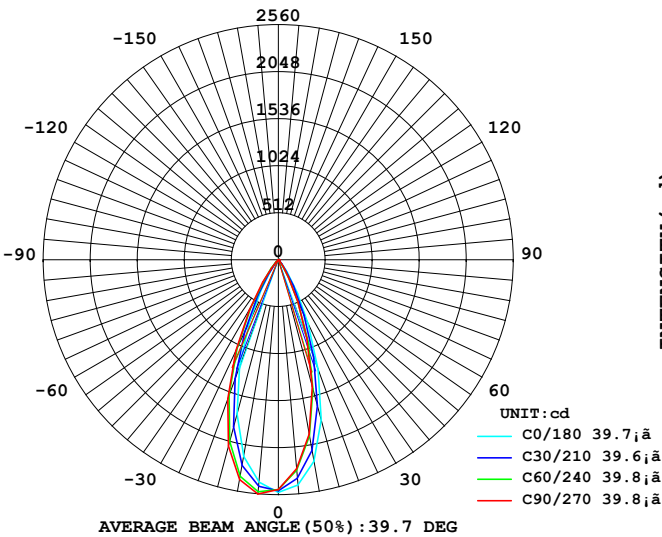
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

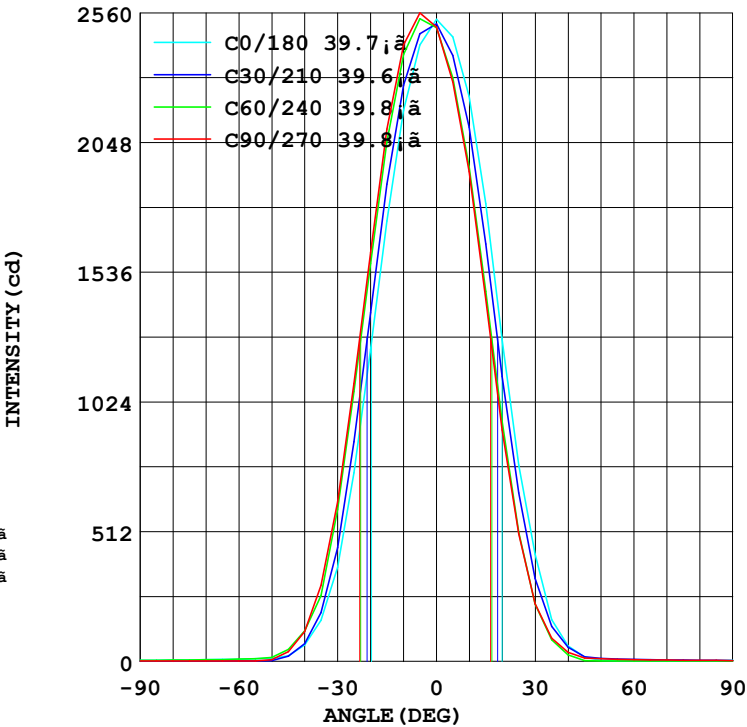
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	2560	S/MH (C0/180)	0.63
MODEL	FLEXION 75	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.73
NOMINAL POWER (W)	12	TOTAL FLUX (lm)	1234.1	Voltage (V)	219.6
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	101.2	Current (A)	0.060
NOMINAL FLUX (lm)	1234.2	η up (%)	0.0	Power (W)	12.20
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.966
TEST VOLTAGE (V)	219.7	Effictive Flux (lm)	1130.1	EEI	0.144

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

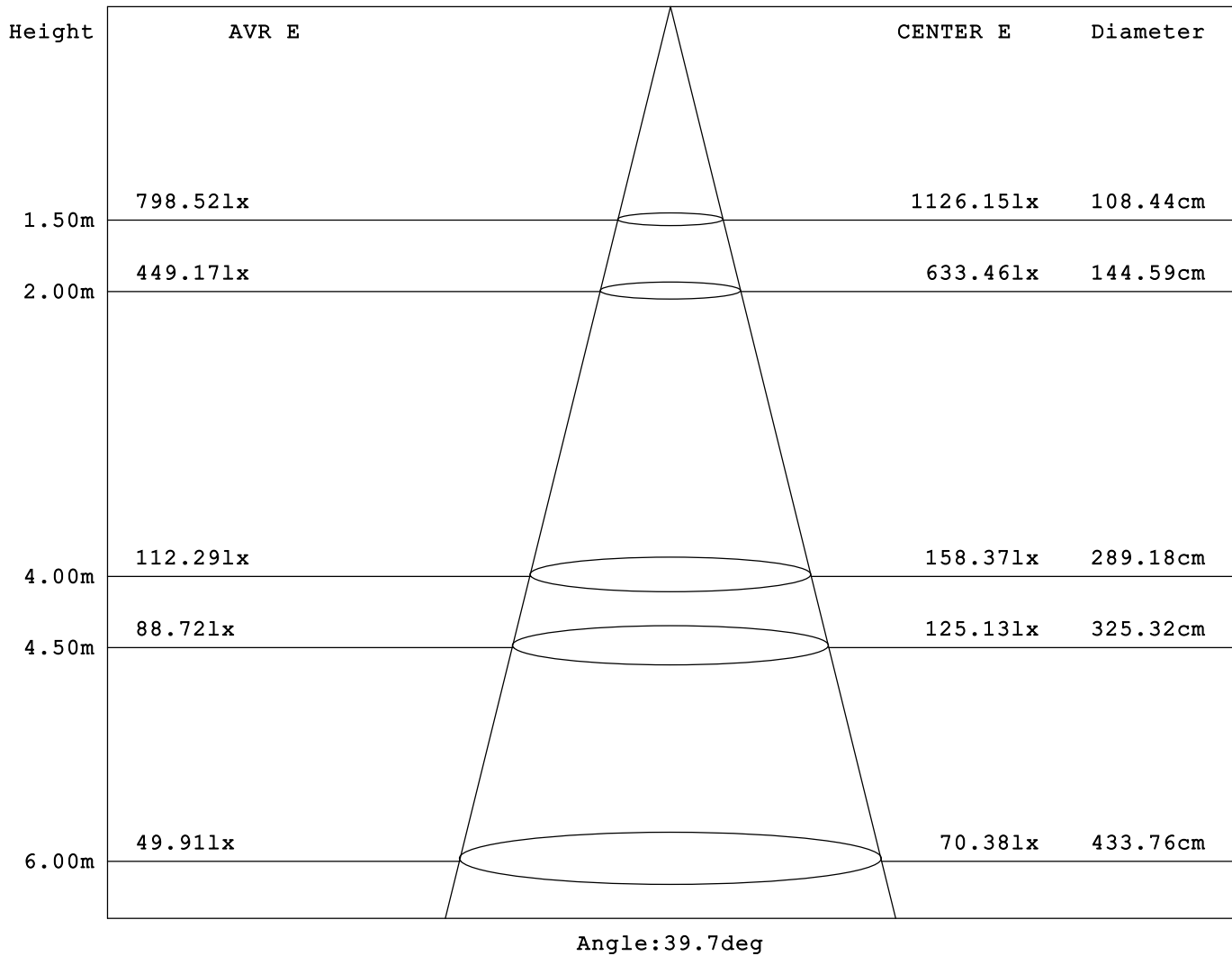
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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Remarks: 5700K

AVERAGE AND CENTER E Figure

Report number:

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NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.600 m
 Remarks: 5700K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2176	2335	2433	2354	2229	2030	1933	1955	0- 10	223.1	223.1
20.0	1232	1473	1613	1508	1270	1036	914.4	970.2	10- 20	480.9	704.1
30.0	371.4	524.9	629.9	564.7	423.2	276.8	227.4	228.0	20- 30	361.7	1066
40.0	65.06	95.38	118.2	109.5	61.65	41.56	35.57	35.06	30- 40	126.8	1193
50.0	12.62	9.169	6.727	10.13	4.147	7.096	10.50	6.635	40- 50	23.68	1217
60.0	8.755	5.483	1.843	5.437	3.502	5.022	7.464	4.746	50- 60	5.795	1222
70.0	6.635	4.239	1.658	4.101	3.225	3.686	5.529	3.502	60- 70	4.542	1227
80.0	5.253	3.456	1.566	3.317	3.317	3.041	4.423	2.903	70- 80	3.844	1231
90.0	4.700	3.363	2.027	3.133	4.515	2.810	3.686	2.672	80- 90	3.506	1234
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:07-21-2025

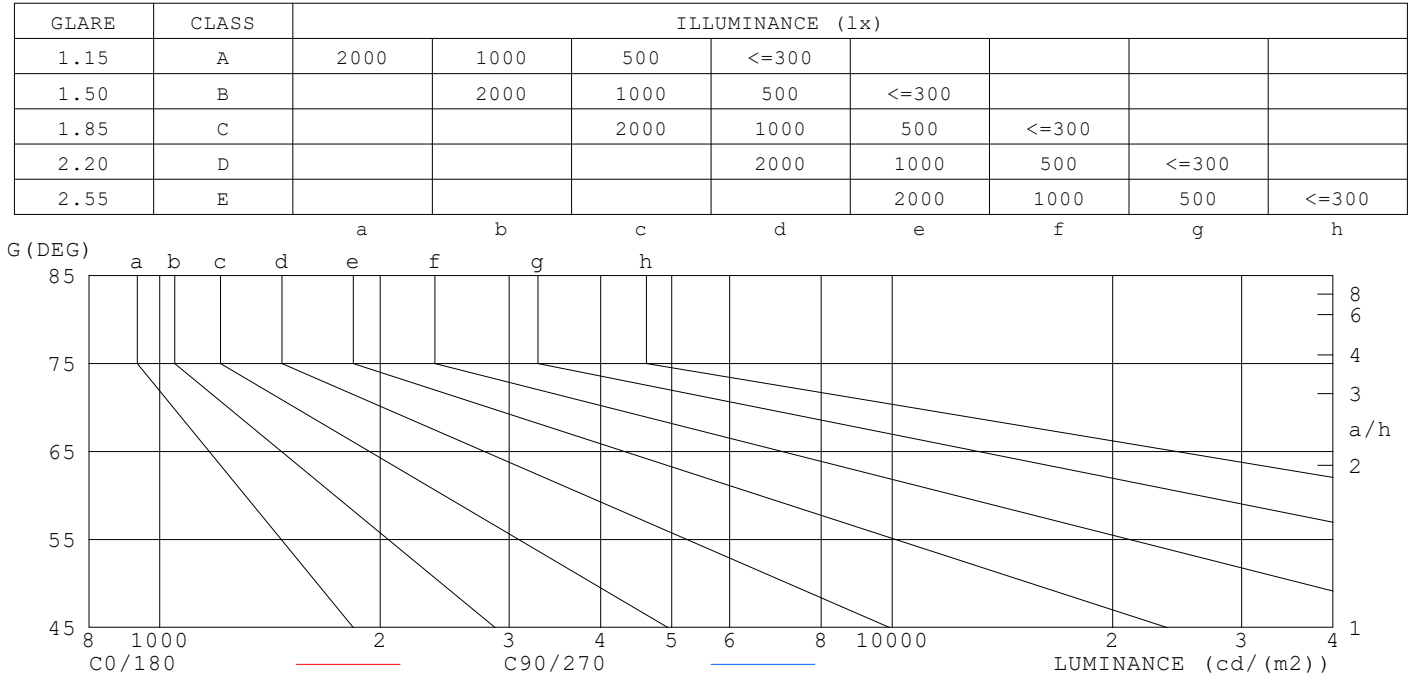
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2

G (DEG)	C0/180	C90/270
85	560	180
80	303	90
75	224	61
70	194	49
65	181	39
60	175	37
55	178	40
50	196	105
45	321	546

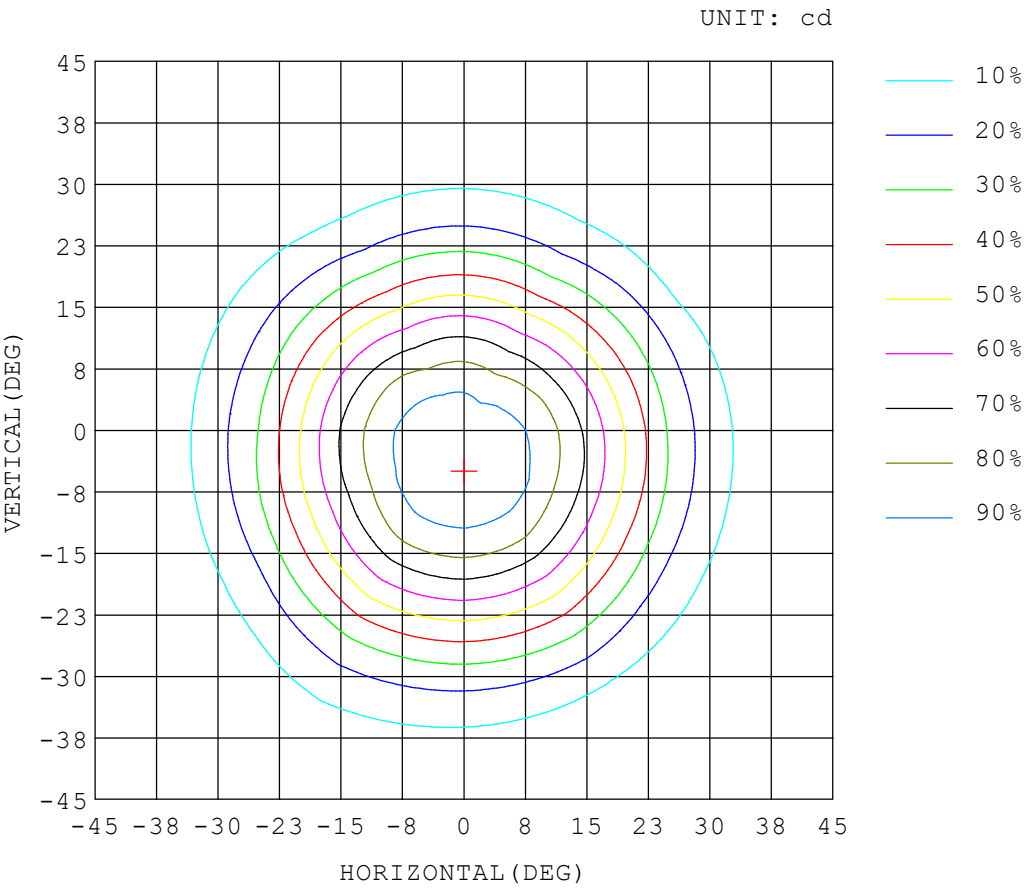
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:



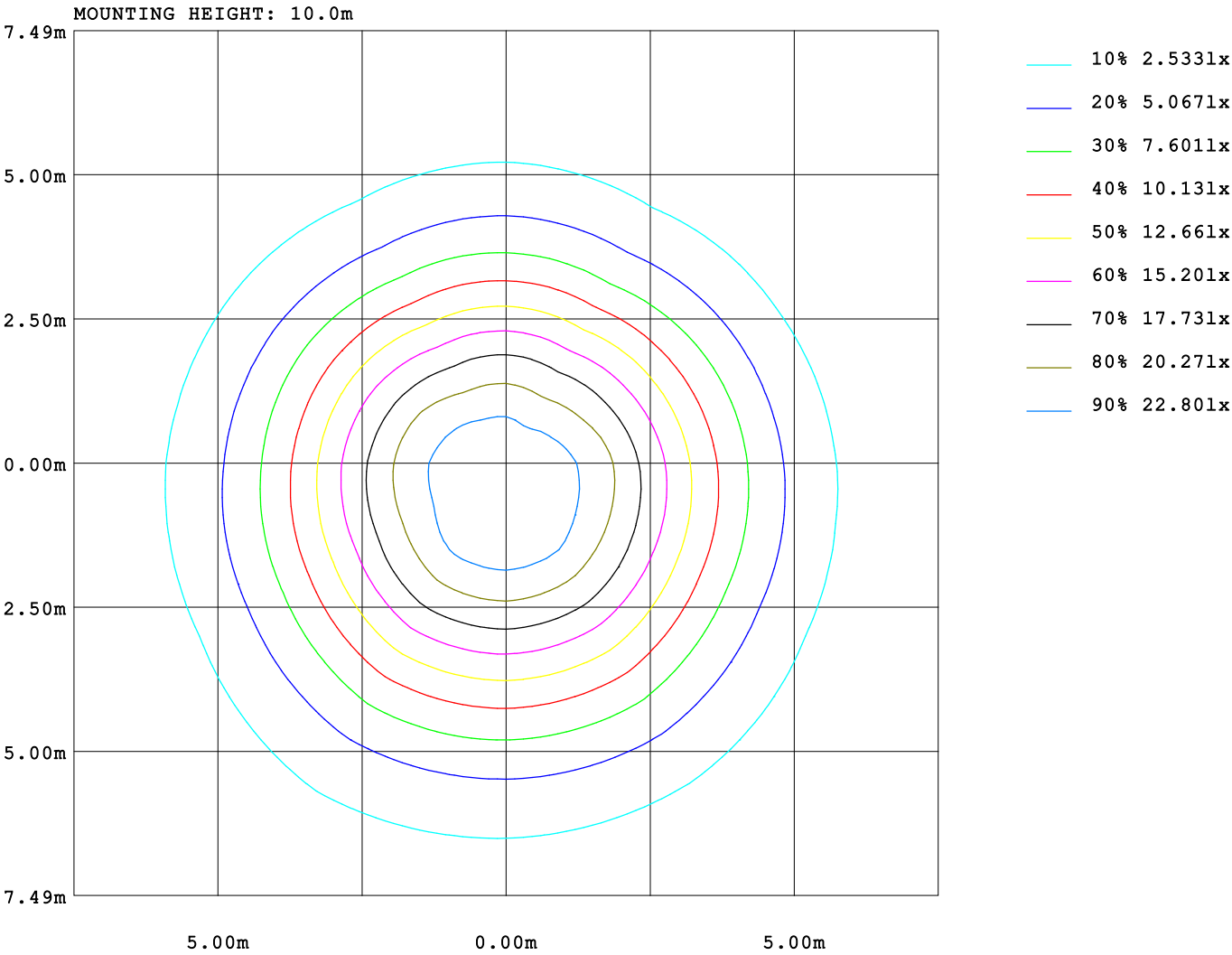
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																				
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																				
NAME: FLEXION 75										TYPE: 5700K CRI-90					WEIGHT:					
SPECIFICATION: OSRAM 250 MA										DIMENSION: D-86 CUTOUT-75 H-78 MM					SERIAL No.:					

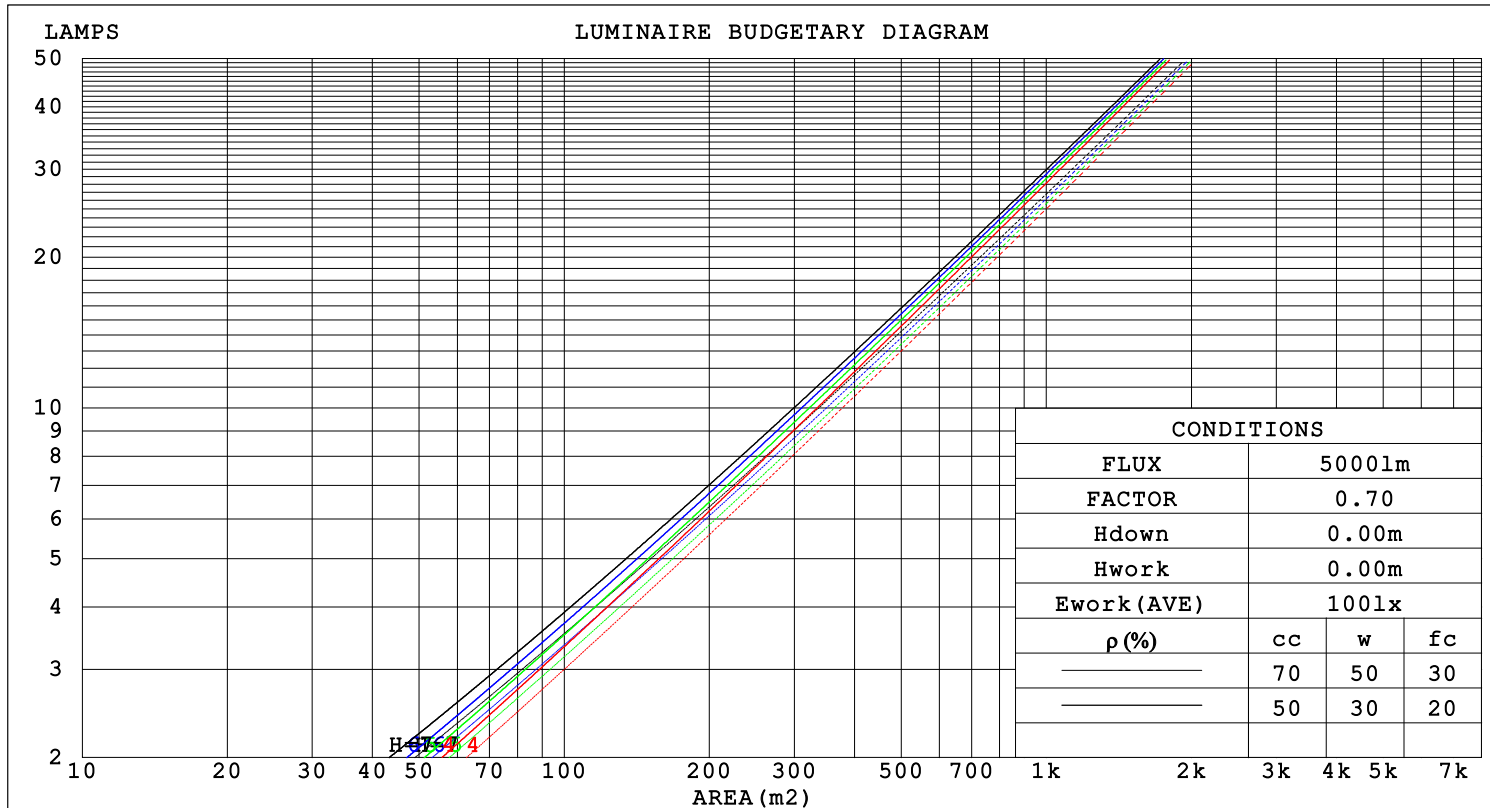
VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm			Φ t	Φ a
	0.04	0.04	0.04	0.03	0.03	0.05	0.09	0.14	0.17	0.17	0.13	0.09	0.04	0.02	0.03	0.04	0.04	0.04	1.24	0.00			
45																							
40																							
35																							
30																							
25																							
20																							
15																							

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

Report number:

pcc	80%			70%			50%			30%			10%			0														
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
p _{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	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95														
2.0	1.05	1.01	.98	1.03	1.00	.97	1.00	.97	.95	.97	.95	.93	.94	.93	.91	.90														
3.0	.99	.95	.91	.98	.94	.91	.95	.92	.89	.93	.90	.88	.91	.88	.86	.85														
4.0	.94	.89	.85	.93	.88	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.81														
5.0	.89	.84	.80	.88	.84	.80	.87	.82	.79	.85	.81	.79	.83	.80	.78	.77														
6.0	.85	.80	.76	.84	.79	.76	.83	.78	.75	.81	.78	.75	.80	.77	.74	.73														
7.0	.81	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.73	.71	.70														
8.0	.77	.72	.69	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.66														
9.0	.74	.69	.65	.73	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.64														
10.0	.71	.66	.63	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.65	.62	.61														



Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: FLEXION 75							TYPE: 5700K CRI-90					WEIGHT:		
SPECIFICATION: OSRAM 250 MA							DIMENSION: D-86 CUTOUT-75 H-78 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	.163	.093	.029	.156	.089	.028	.144	.082	.026	.132	.076	.024	.122	.070	.023															
2.0	.152	.084	.026	.147	.081	.025	.136	.076	.024	.127	.071	.022	.118	.067	.021															
3.0	.143	.076	.023	.139	.074	.022	.130	.070	.021	.122	.067	.020	.114	.063	.020															
4.0	.136	.070	.021	.132	.069	.020	.124	.066	.020	.117	.063	.019	.111	.060	.018															
5.0	.129	.066	.019	.125	.064	.019	.119	.062	.018	.113	.059	.018	.107	.057	.017															
6.0	.122	.061	.018	.119	.060	.017	.114	.058	.017	.108	.056	.017	.103	.054	.016															
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.104	.054	.016	.100	.052	.015															
8.0	.112	.055	.015	.109	.054	.015	.105	.052	.015	.101	.051	.015	.097	.050	.014															
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.094	.048	.014															
10.0	.103	.049	.014	.101	.049	.014	.097	.048	.013	.094	.047	.013	.091	.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	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.111	.077	.052	.096	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.085	.054	.033	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.056	.035	.020	.032	.021	.012	.010	.007	.004	
10.0	.089	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: FLEXION 75					TYPE: 5700K CRI-90			WEIGHT:			
SPECIFICATION: OSRAM 250 MA					DIMENSION: D-86 CUTOUT-75 H-78 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		2.2	3.1	2.5	3.2	3.4	5.5	6.3	5.7	6.5	6.6
	3H	2.4	3.1	2.6	3.3	3.5	5.4	6.2	5.7	6.4	6.5
	4H	2.6	3.3	2.8	3.5	3.7	5.4	6.1	5.6	6.3	6.5
	6H	3.0	3.7	3.3	3.9	4.1	5.3	6.0	5.6	6.2	6.5
	8H	3.3	4.0	3.6	4.2	4.5	5.3	6.0	5.6	6.2	6.5
	12H	3.8	4.4	4.1	4.7	5.0	5.3	6.0	5.6	6.2	6.5
4H	2H	2.1	2.8	2.4	3.0	3.2	5.3	6.0	5.6	6.2	6.4
	3H	2.2	2.9	2.6	3.1	3.4	5.3	5.9	5.6	6.2	6.4
	4H	2.5	3.1	2.8	3.3	3.7	5.3	5.9	5.7	6.2	6.5
	6H	3.0	3.5	3.4	3.9	4.2	5.4	5.9	5.7	6.2	6.5
	8H	3.5	4.0	3.9	4.3	4.7	5.4	5.9	5.8	6.2	6.6
	12H	4.2	4.7	4.6	5.0	5.4	5.5	5.9	5.9	6.3	6.7
8H	4H	2.5	3.0	2.9	3.3	3.7	5.3	5.7	5.6	6.1	6.4
	6H	3.1	3.5	3.5	3.9	4.3	5.5	5.9	5.9	6.3	6.7
	8H	3.6	4.0	4.1	4.4	4.8	5.7	6.0	6.1	6.5	6.9
	12H	4.6	4.9	5.0	5.3	5.8	5.9	6.2	6.4	6.7	7.2
12H	4H	2.6	3.0	3.0	3.4	3.7	5.2	5.6	5.6	6.0	6.4
	6H	3.2	3.5	3.6	4.0	4.4	5.5	5.8	5.9	6.3	6.7
	8H	3.7	4.0	4.2	4.5	4.9	5.8	6.1	6.3	6.5	7.0
Variations with the observer position at spacings:											
S = 1.0H	+ 1.5 / - 1.6					+ 2.4 / - 3.4					
1.5H	+ 3.3 / - 1.8					+ 4.7 / - 3.7					
2.0H	+ 1.6 / - 0.6					+ 2.9 / - 0.9					

CIE Pub.117 Corrected 1234 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Test Distance:9.600 m
 Remarks: 5700K

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 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	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

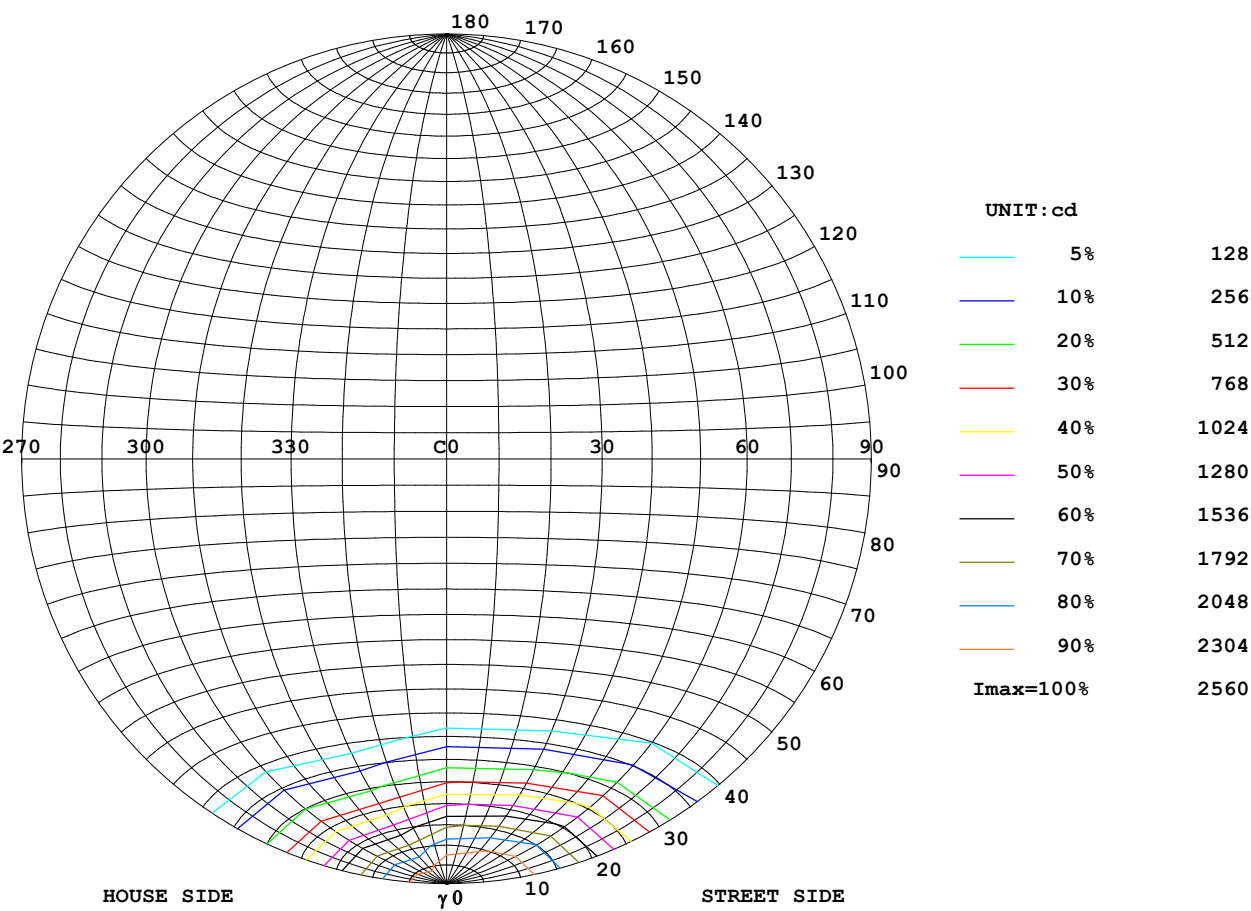
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 Temperature: 25.3 DEG
 Operators:
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 Humidity: 65.0%
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ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
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ISOLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 25.34 lx



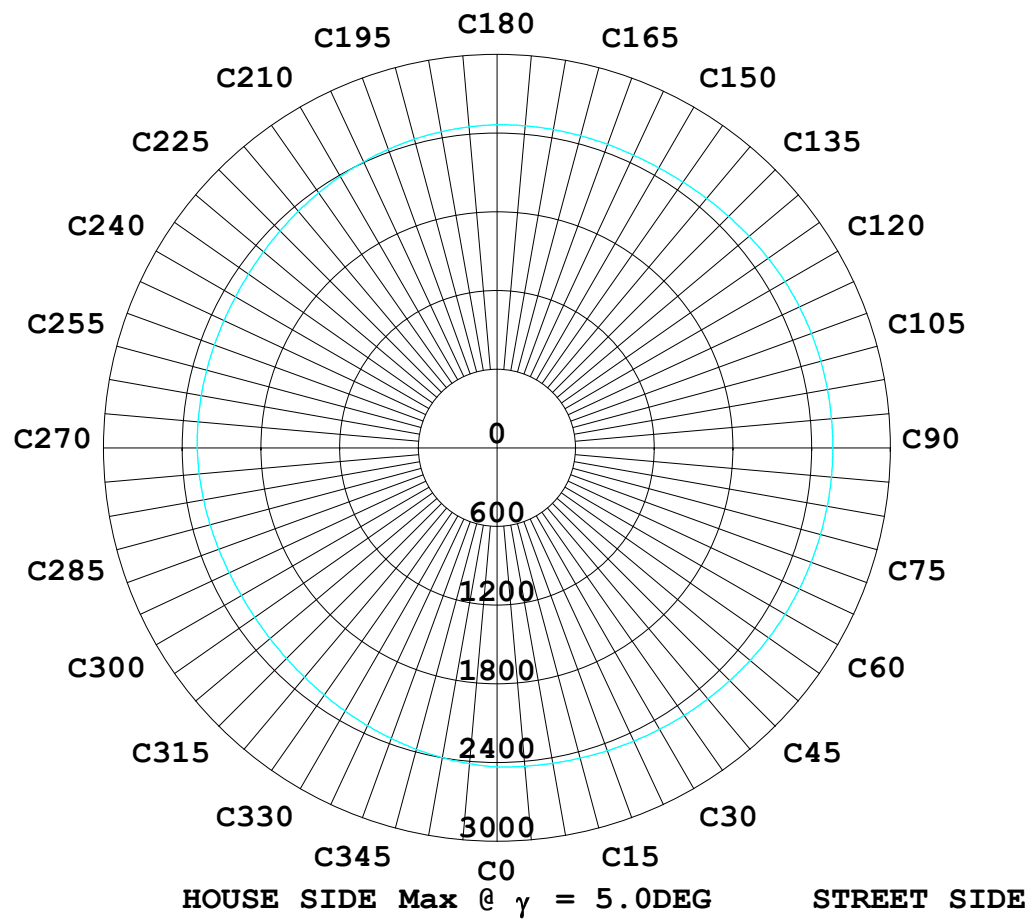
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:07-21-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.600 m
Remarks: 5700K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: FLEXION 75	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: OSRAM 250 MA	DIMENSION: D-86 CUTOUT-75 H-78 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2534	2517	2501	2504	2476	2471	2534	2517	2501	2504	2476	2471
5.0	2433	2478	2537	2560	2536	2467	2465	2391	2304	2287	2252	2317
10.0	2176	2274	2396	2433	2418	2289	2229	2109	1952	1933	1891	2019
15.0	1739	1884	2052	2101	2088	1904	1806	1647	1460	1430	1400	1556
20.0	1232	1377	1570	1613	1610	1407	1270	1125	948	914	884	1056
25.0	744	867	1065	1097	1104	907	774	665	510	504	466	608
30.0	371	449	601	630	646	483	423	328	226	227	200	256
35.0	162	193	259	300	326	217	164	139	84.7	91.6	72.8	119
40.0	65.0	69.7	121	118	137	81.7	61.6	56.6	26.4	35.5	22.1	48.0
45.0	22.6	20.6	47.3	38.6	53.6	25.8	16.9	18.2	3.04	13.2	2.67	15.4
50.0	12.6	2.76	15.5	6.72	17.5	2.76	4.14	11.7	2.39	10.5	2.21	11.0
55.0	10.2	2.21	10.7	2.30	11.1	2.21	3.68	9.67	2.02	8.75	1.93	9.12
60.0	8.75	2.02	8.93	1.84	9.03	1.84	3.50	8.20	1.84	7.46	1.75	7.74
65.0	7.64	1.93	7.55	1.65	7.64	1.75	3.40	7.00	1.56	6.26	1.47	6.54
70.0	6.63	1.84	6.63	1.65	6.63	1.56	3.22	5.99	1.38	5.52	1.29	5.71
75.0	5.80	1.65	5.80	1.56	5.89	1.47	3.22	5.25	1.38	4.88	1.29	4.97
80.0	5.25	1.75	5.16	1.56	5.16	1.47	3.31	4.79	1.29	4.42	1.29	4.51
85.0	4.88	1.75	4.70	1.56	4.70	1.56	3.31	4.23	1.38	4.14	1.29	4.14
90.0	4.70	2.48	4.23	2.02	4.23	2.02	4.51	3.77	1.84	3.68	1.65	3.68

Test System:HOPOO HPG1800
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