

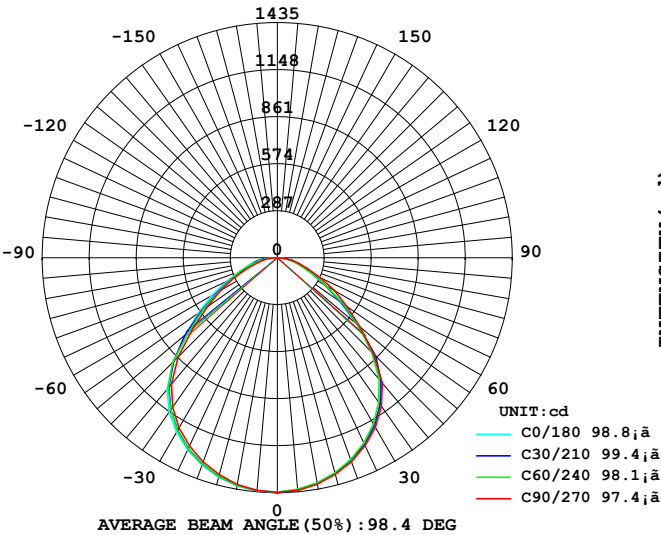
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

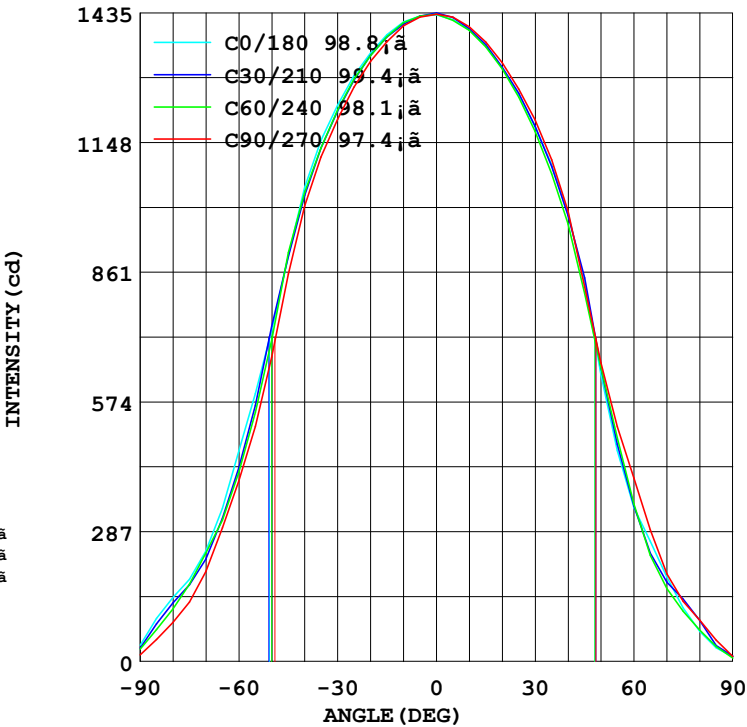
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	1435	S/MH (C0/180)	1.28
MODEL	XTREM BENT 165	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.24
NOMINAL POWER (W)	34	TOTAL FLUX (lm)	3438.9	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	98.5	Current (A)	0.159
NOMINAL FLUX (lm)	3439.0	η up (%)	0.0	Power (W)	34.90
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.991
TEST VOLTAGE (V)	219.8	Effictive Flux(lm)	3326.6	EEI	0.143

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:

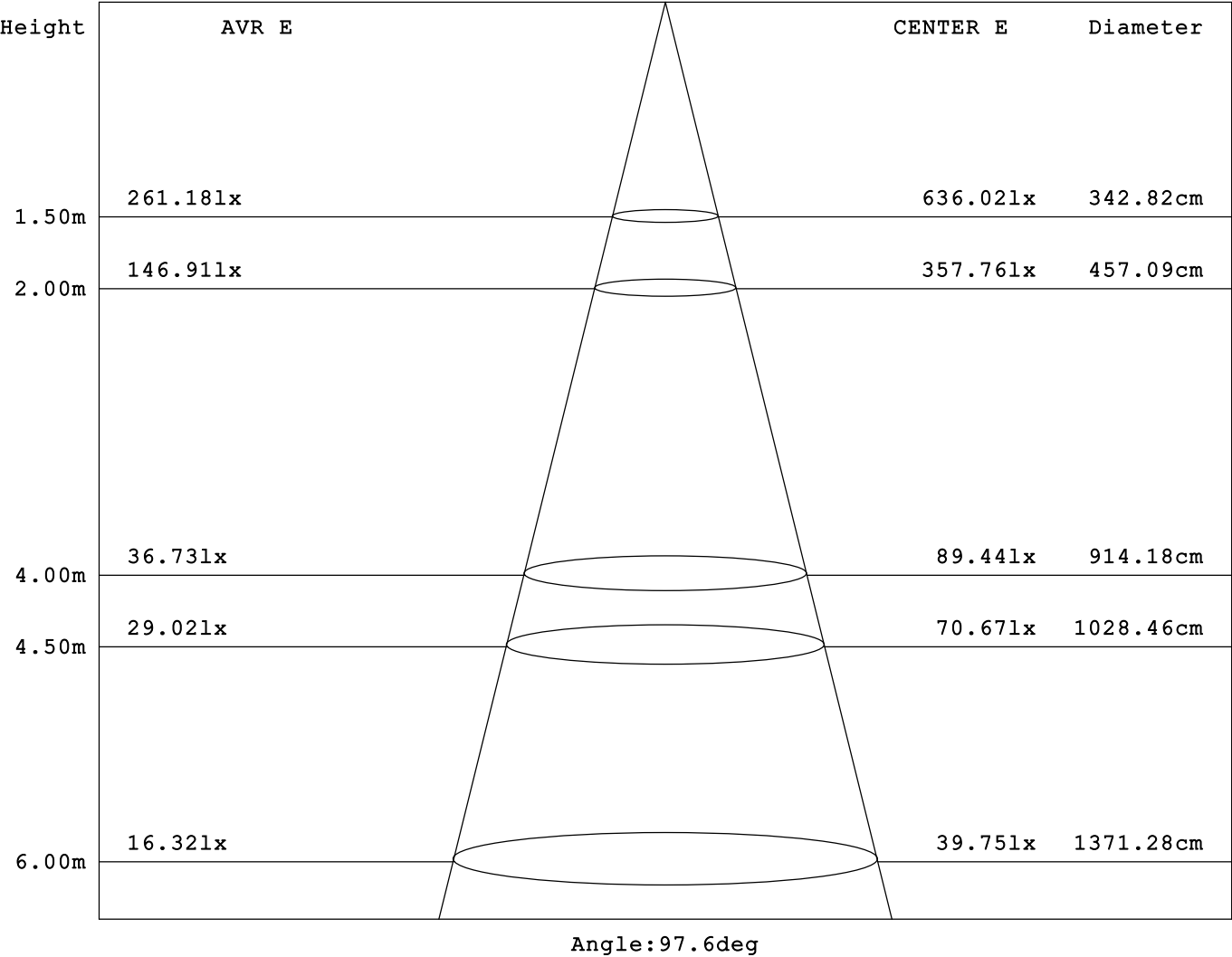
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1415	1412	1407	1398	1397	1399	1404	1409	0- 10	135.3	135.3
20.0	1347	1341	1328	1315	1313	1313	1325	1335	10- 20	387.1	522.4
30.0	1231	1219	1200	1181	1184	1179	1199	1213	20- 30	584.9	1107
40.0	1049	1034	1008	985.2	992.1	977.3	996.9	1023	30- 40	694.4	1802
50.0	732.6	726.3	673.9	663.3	633.8	649.6	660.4	707.6	40- 50	658.1	2460
60.0	464.9	423.2	399.1	355.9	340.6	346.0	405.1	413.7	50- 60	473.8	2934
70.0	243.9	232.7	198.5	176.0	186.3	168.0	193.7	226.6	60- 70	286.8	3221
80.0	140.9	122.3	85.82	83.80	66.11	79.68	91.32	115.6	70- 80	156.2	3377
90.0	35.90	28.63	14.78	15.29	9.984	9.504	11.32	20.92	80- 90	62.05	3439
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:05-20-2025

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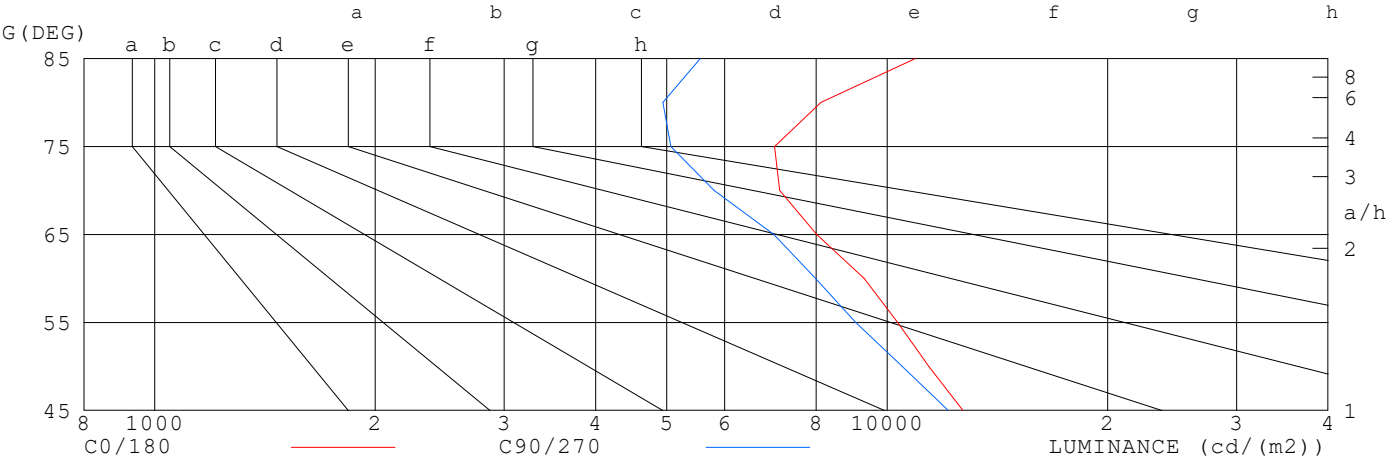
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 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	10934	5559
80	8119	4942
75	7020	5064
70	7133	5805
65	8016	7004
60	9299	7983
55	10338	9066
50	11398	10485
45	12697	12127

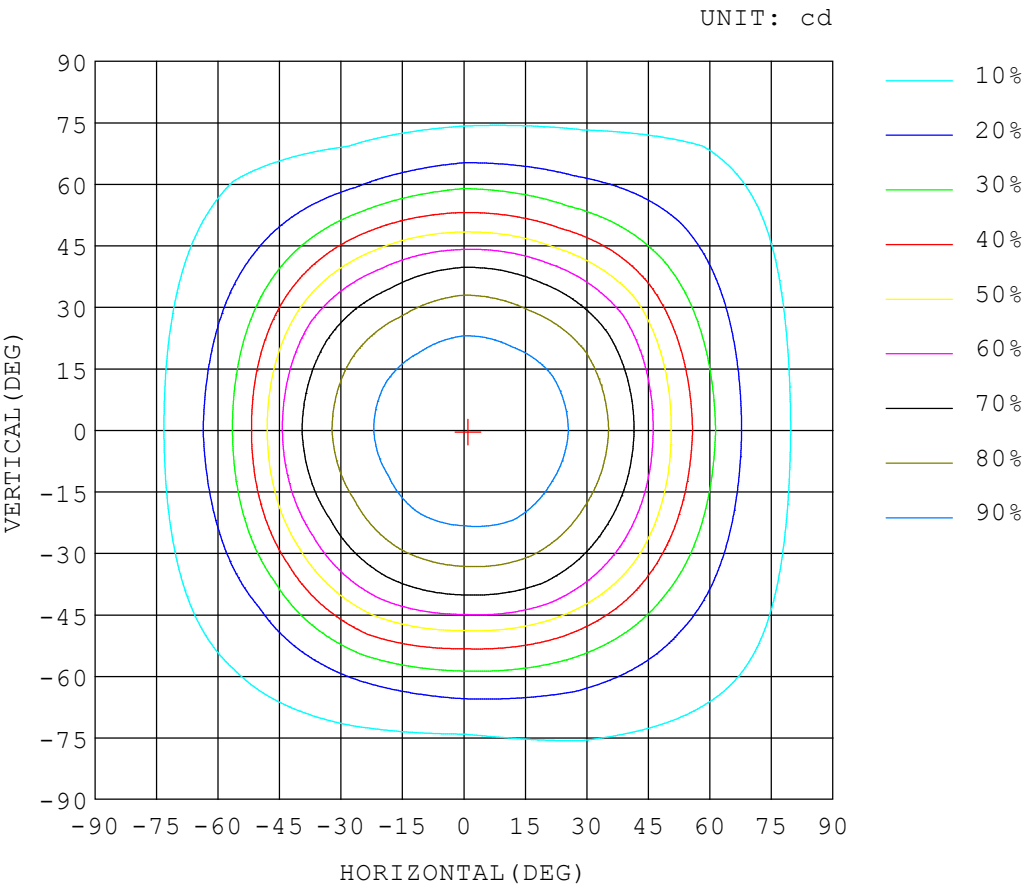
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:



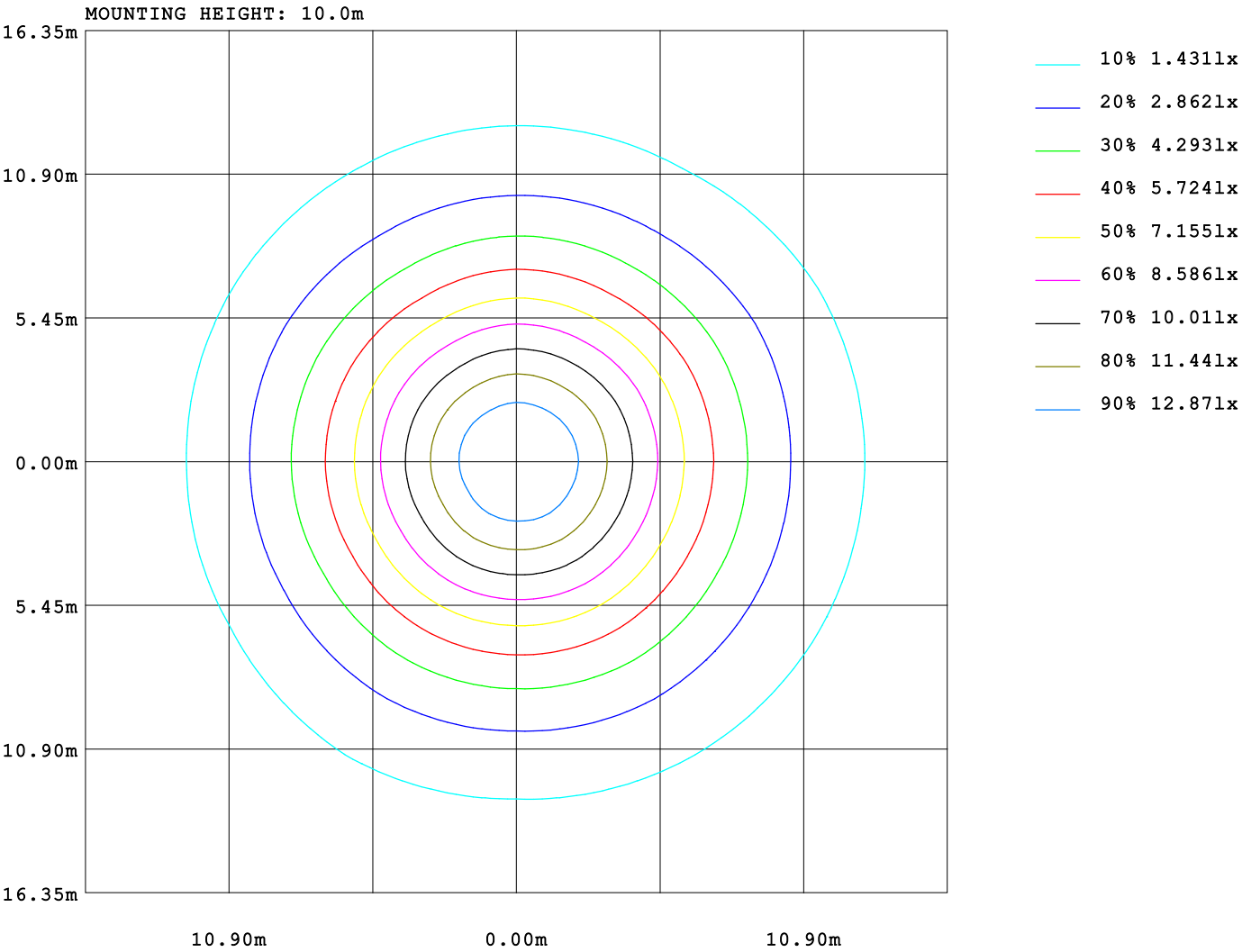
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																			
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																			
NAME: XTREM BENT 165										TYPE: 3000K CRI-90					WEIGHT:				
SPECIFICATION: FULHAM 800 MA										DIMENSION: 1200*164*35 MM					SERIAL No.:				

90 80 70 60 50 40 30
--

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS

Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019

NAME: XTREM BENT 165

TYPE: 3000K CRI-90

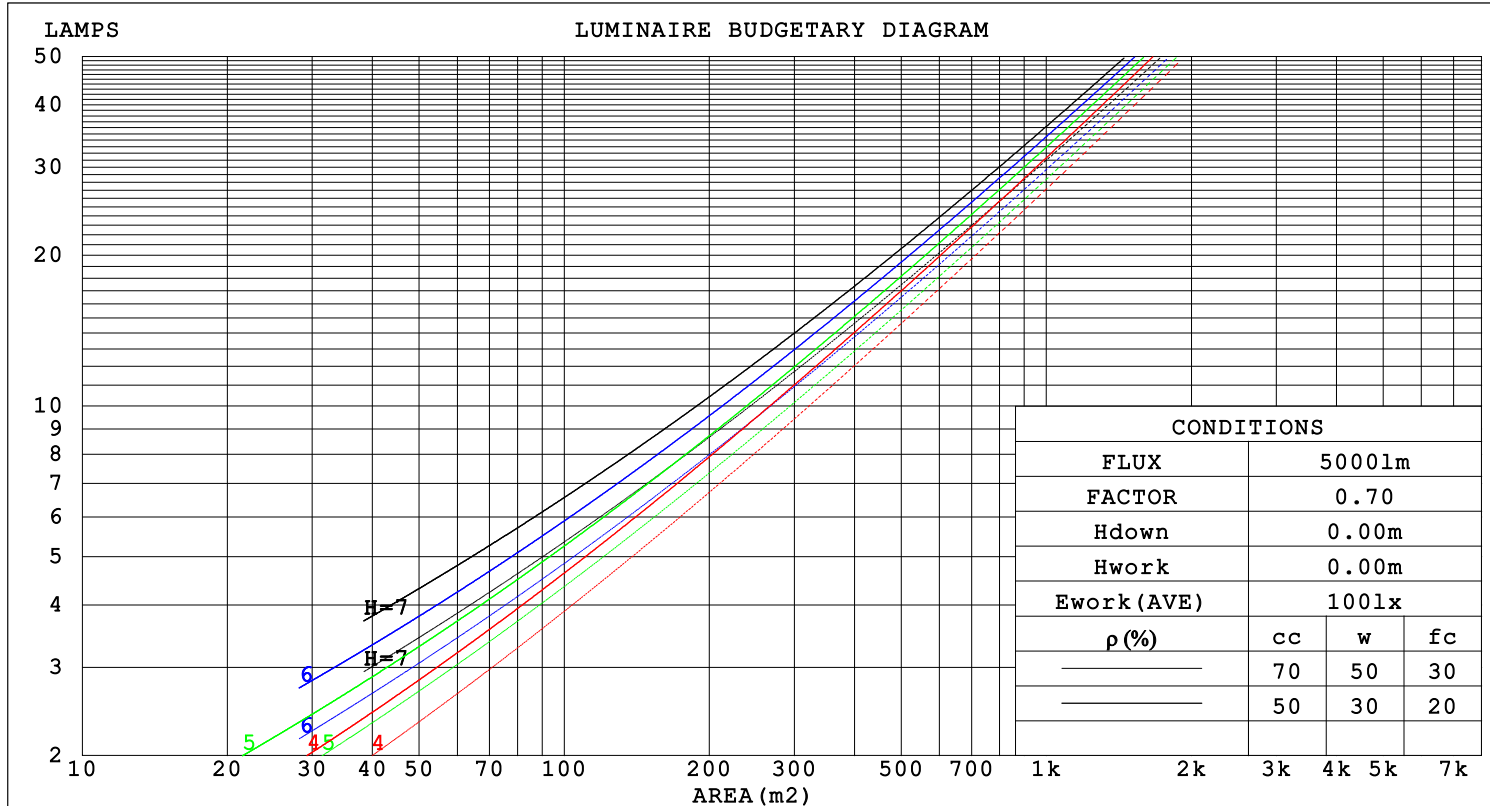
WEIGHT:

SPECIFICATION: FULHAM 800 MA

DIMENSION: 1200*164*35 MM

SERIAL No.:

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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86												
2.0	.93	.87	.82	.91	.85	.81	.88	.83	.79	.84	.80	.77	.82	.78	.75	.73												
3.0	.83	.75	.69	.81	.74	.68	.78	.72	.67	.76	.70	.66	.73	.69	.65	.63												
4.0	.74	.66	.59	.73	.65	.59	.70	.64	.58	.68	.62	.57	.66	.61	.57	.55												
5.0	.67	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.50	.60	.54	.50	.48												
6.0	.60	.52	.46	.59	.51	.45	.58	.50	.45	.56	.50	.45	.54	.49	.44	.42												
7.0	.55	.47	.41	.54	.46	.41	.53	.45	.40	.51	.45	.40	.50	.44	.40	.38												
8.0	.50	.42	.36	.50	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34												
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.43	.37	.33	.42	.37	.32	.31												
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28												



Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 05-20-2025

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

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: XTREM BENT 165							TYPE: 3000K CRI-90					WEIGHT:		
SPECIFICATION: FULHAM 800 MA							DIMENSION: 1200*164*35 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	.282	.161	.051	.275	.157	.050	.262	.150	.048	.250	.144	.046	.239	.139	.045	
2.0	.267	.146	.045	.260	.143	.044	.249	.138	.043	.238	.134	.042	.229	.129	.041	
3.0	.249	.132	.040	.243	.130	.039	.233	.126	.038	.224	.123	.038	.215	.119	.037	
4.0	.231	.120	.035	.227	.119	.035	.218	.116	.034	.210	.113	.034	.202	.110	.033	
5.0	.216	.110	.032	.211	.109	.032	.204	.106	.031	.196	.104	.031	.189	.101	.030	
6.0	.201	.101	.029	.198	.100	.029	.191	.098	.028	.184	.096	.028	.178	.094	.028	
7.0	.189	.093	.026	.185	.092	.026	.179	.090	.026	.173	.089	.026	.168	.087	.026	
8.0	.177	.087	.024	.174	.086	.024	.168	.084	.024	.163	.083	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.154	.077	.022	.150	.076	.022	
10.0	.157	.075	.021	.155	.075	.021	.150	.074	.021	.146	.073	.021	.142	.071	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.137	.098	.067	.094	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.041	.119	.071	.036	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.075	.042	.018	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.000 m
 Remarks: 3000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: XTREM BENT 165					TYPE: 3000K CRI-90			WEIGHT:			
SPECIFICATION: FULHAM 800 MA					DIMENSION: 1200*164*35 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	20.7	22.1	21.0	22.3	22.5	20.3	21.8	20.6	21.9	22.1
	3H	21.6	22.9	21.9	23.1	23.3	21.1	22.5	21.4	22.7	22.9
	4H	22.0	23.3	22.3	23.5	23.8	21.5	22.7	21.8	23.0	23.2
	6H	22.6	23.8	22.9	24.0	24.3	21.7	22.9	22.0	23.2	23.4
	8H	22.9	24.0	23.3	24.3	24.6	21.8	23.0	22.2	23.2	23.5
	12H	23.2	24.3	23.5	24.6	24.9	21.9	23.0	22.3	23.3	23.6
4H	2H	21.0	22.2	21.3	22.5	22.7	20.7	22.0	21.0	22.2	22.5
	3H	22.1	23.2	22.4	23.5	23.8	21.8	22.9	22.1	23.2	23.5
	4H	22.7	23.7	23.1	24.0	24.3	22.3	23.2	22.6	23.6	23.9
	6H	23.5	24.3	23.9	24.7	25.1	22.7	23.5	23.1	23.9	24.3
	8H	23.9	24.7	24.3	25.1	25.5	22.8	23.7	23.3	24.0	24.4
	12H	24.3	25.0	24.7	25.4	25.8	23.0	23.7	23.4	24.1	24.5
8H	4H	22.9	23.8	23.3	24.1	24.5	22.5	23.3	22.9	23.7	24.1
	6H	23.9	24.6	24.3	25.0	25.4	23.1	23.8	23.6	24.2	24.6
	8H	24.5	25.1	24.9	25.5	25.9	23.4	24.0	23.9	24.5	24.9
	12H	25.0	25.5	25.4	25.9	26.4	23.7	24.2	24.2	24.6	25.1
12H	4H	23.0	23.7	23.4	24.1	24.5	22.6	23.3	23.0	23.7	24.1
	6H	24.0	24.6	24.4	25.0	25.5	23.3	23.9	23.7	24.3	24.7
	8H	24.6	25.1	25.1	25.6	26.1	23.6	24.1	24.1	24.6	25.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H		+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H		+ 0.4 / - 0.4					+ 0.5 / - 0.5				

CIE Pub.117 Corrected 3439 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
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UTILIZATION FACTORS TABLE

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, 301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 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) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	44	61	51	44	60	50	44	38
0.80	72	61	54	71	61	54	69	60	54	48
1.00	80	70	63	79	70	63	77	71	63	56
1.25	87	78	71	86	77	71	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	84	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	96	90	86	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	98	105	101	97	101	97	94	86
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

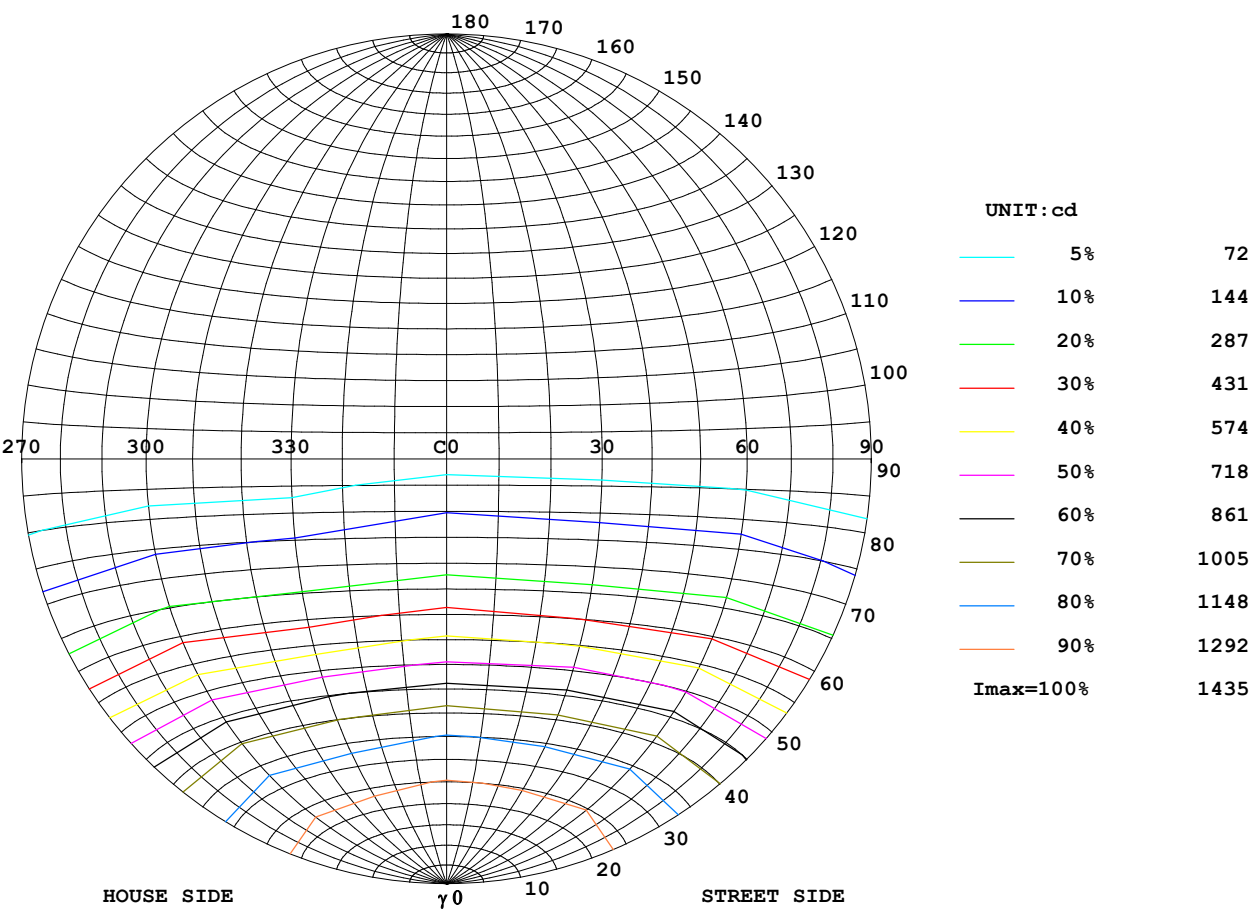
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ISOCANDELA DIAGRAM

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
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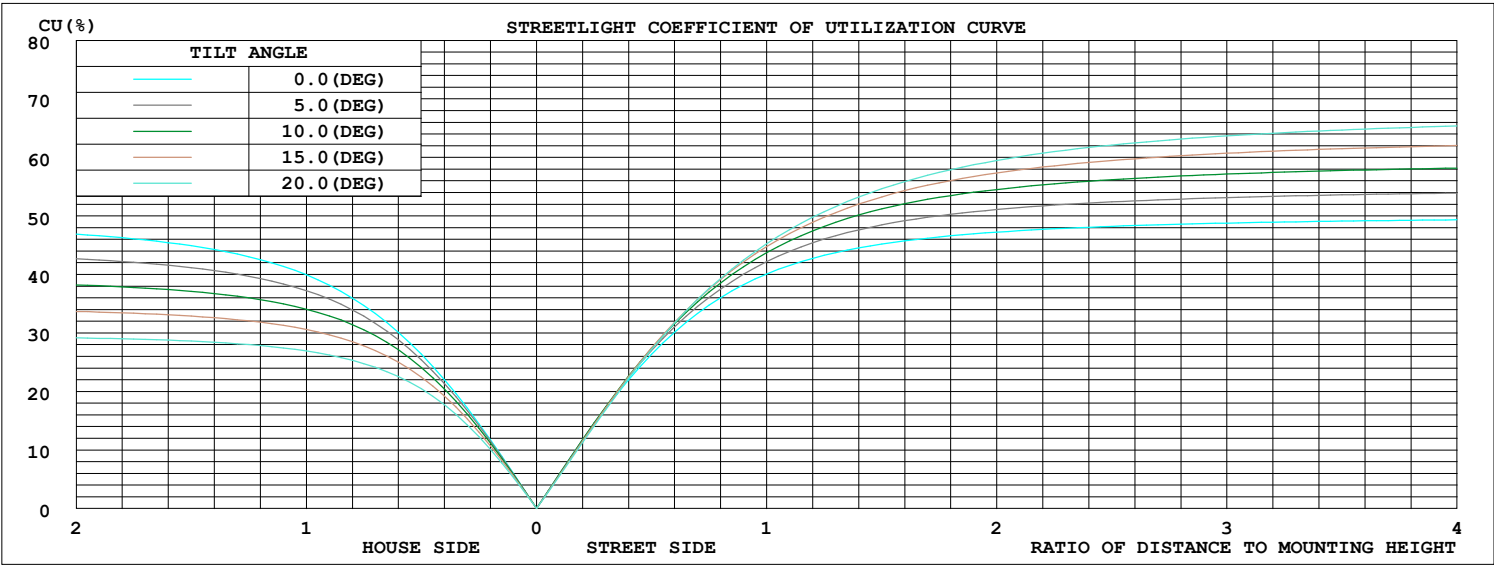
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ISOLUX DIAGRAM

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 14.31 lx



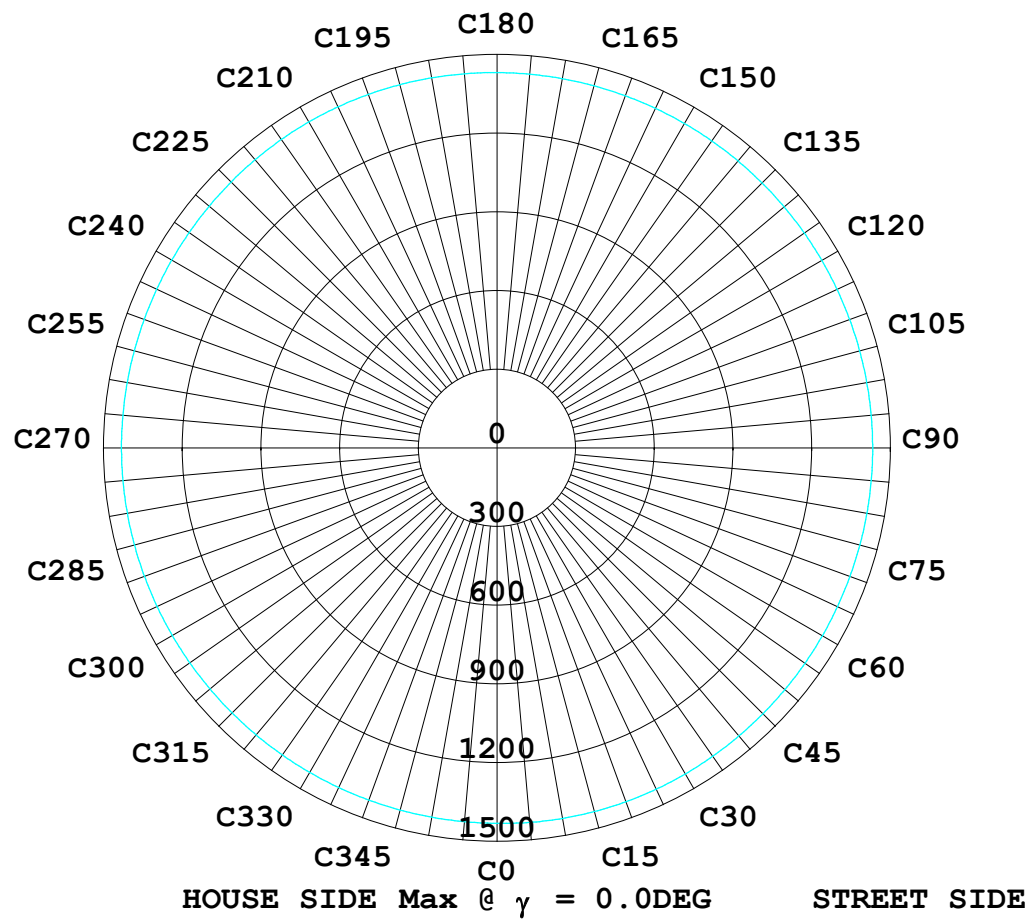
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.000 m
Remarks: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: XTREM BENT 165	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 800 MA	DIMENSION: 1200*164*35 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1431	1435	1432	1432	1430	1429	1431	1435	1432	1432	1430	1429
5.0	1428	1428	1428	1426	1423	1418	1420	1425	1419	1426	1423	1426
10.0	1415	1410	1413	1407	1402	1393	1397	1401	1397	1404	1405	1412
15.0	1387	1382	1383	1371	1368	1356	1361	1365	1360	1371	1373	1384
20.0	1347	1342	1341	1328	1324	1307	1313	1315	1312	1325	1326	1344
25.0	1296	1287	1289	1270	1265	1245	1254	1257	1249	1267	1272	1292
30.0	1231	1218	1220	1200	1192	1170	1184	1184	1173	1199	1199	1227
35.0	1153	1136	1136	1116	1105	1080	1098	1095	1079	1110	1109	1144
40.0	1049	1032	1037	1008	999	971	992	987	968	997	1004	1042
45.0	898	896	905	858	863	827	838	849	814	829	853	911
50.0	733	742	711	674	688	638	634	650	650	660	668	747
55.0	593	567	551	520	532	468	467	481	495	519	521	574
60.0	465	428	418	399	381	331	341	344	348	405	391	437
65.0	339	317	313	296	264	222	266	239	235	291	291	328
70.0	244	226	239	199	186	166	186	175	161	194	209	244
75.0	182	169	171	131	134	127	118	138	111	133	147	181
80.0	141	129	115	85.8	87.3	80.2	66.1	90.4	68.8	91.3	94.5	137
85.0	95.2	83.0	70.2	48.4	47.9	29.2	30.0	35.2	32.7	46.8	54.7	89.0
90.0	35.9	29.6	27.5	14.7	17.4	13.1	9.98	11.3	7.61	11.3	10.9	30.9

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