

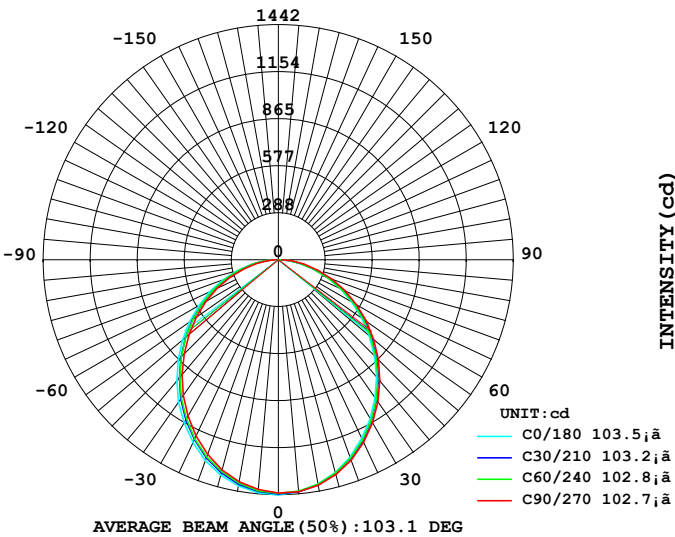
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

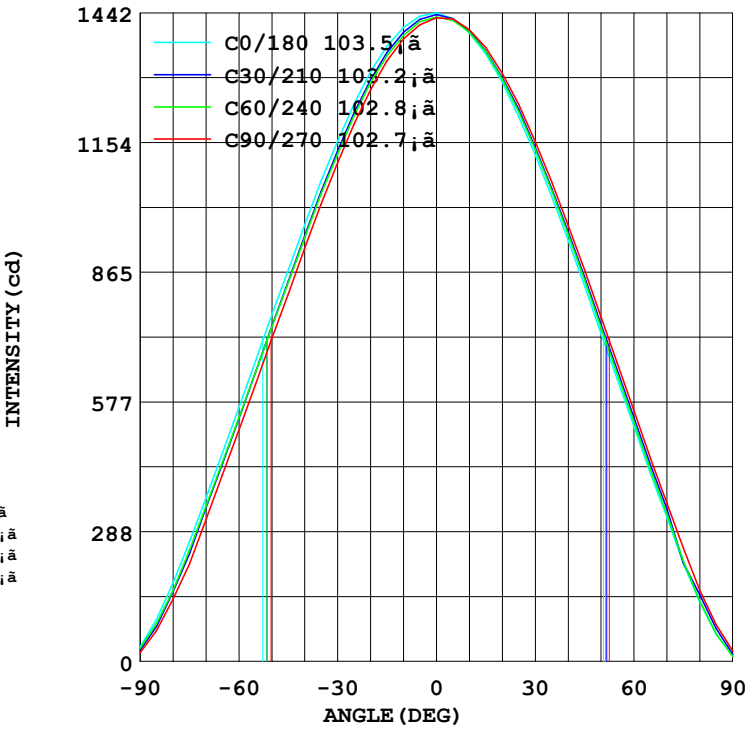
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	1442	S/MH (C0/180)	1.20
MODEL	VIRAJ 45 HEXAGON	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.16
NOMINAL POWER (W)	35	TOTAL FLUX (lm)	3730.6	Voltage (V)	219.6
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	106.9	Current (A)	0.158
NOMINAL FLUX (lm)	3730.7	η up (%)	0.0	Power (W)	34.90
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.988
TEST VOLTAGE (V)	219.6	Effictive Flux (lm)	3643.4	EEI	0.130

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:

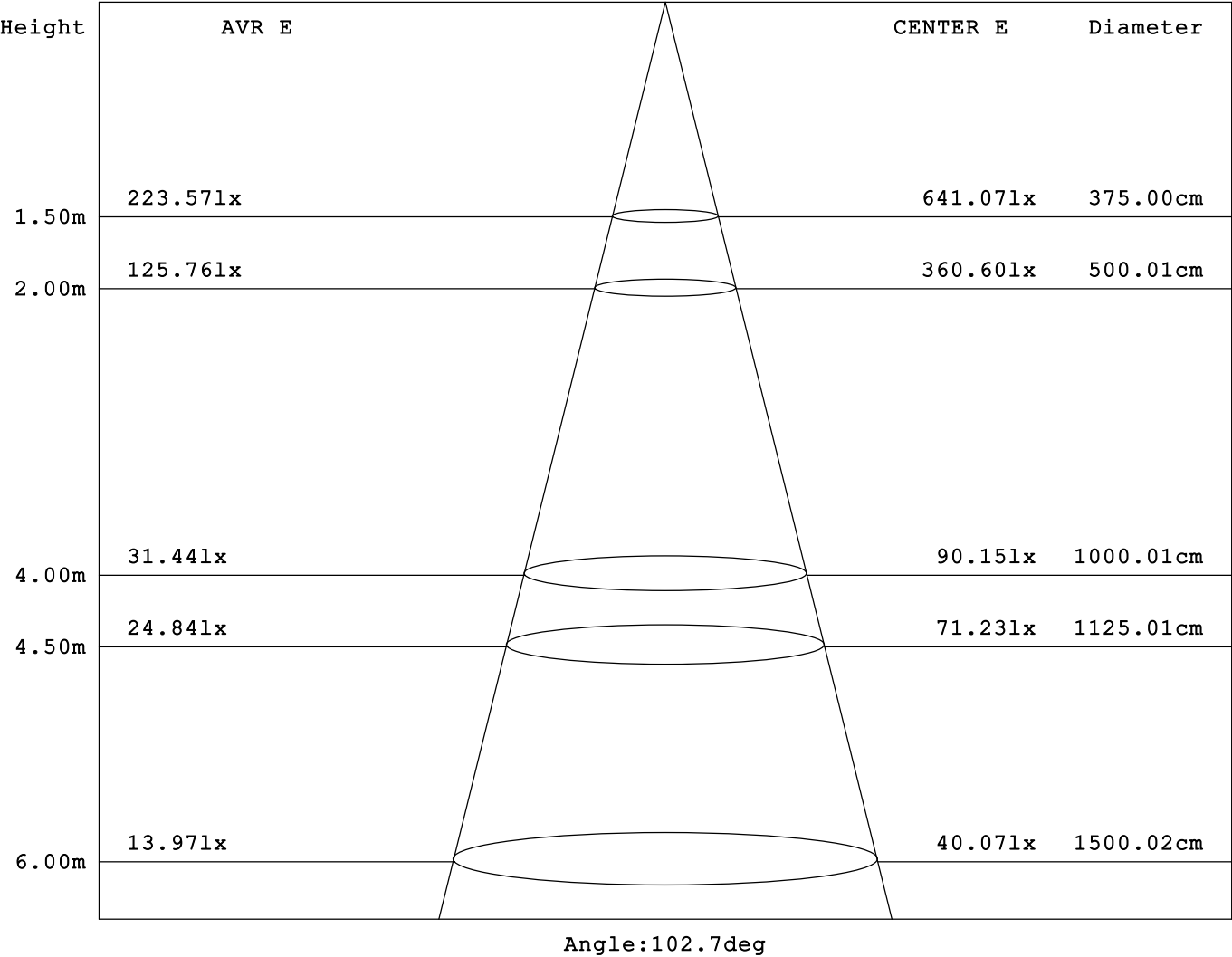
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1410	1396	1384	1383	1398	1402	1405	1405	0- 10	135.1	135.1
20.0	1312	1290	1271	1270	1289	1297	1308	1308	10- 20	381.1	516.2
30.0	1156	1132	1109	1106	1128	1142	1157	1158	20- 30	561.3	1078
40.0	970.2	944.1	919.0	916.8	937.2	953.3	970.3	972.7	30- 40	653.2	1731
50.0	770.4	744.0	717.2	716.6	729.3	746.2	765.7	767.7	40- 50	653.6	2385
60.0	564.1	539.9	513.7	510.2	522.6	537.3	557.3	561.1	50- 60	574.1	2959
70.0	362.9	342.1	314.5	313.4	320.5	333.3	352.1	356.8	60- 70	432.5	3391
80.0	173.0	155.2	137.5	134.2	131.5	141.1	157.9	162.0	70- 80	252.1	3643
90.0	32.51	27.20	19.86	18.27	12.71	12.93	22.83	24.78	80- 90	87.23	3731
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:06-06-2025

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

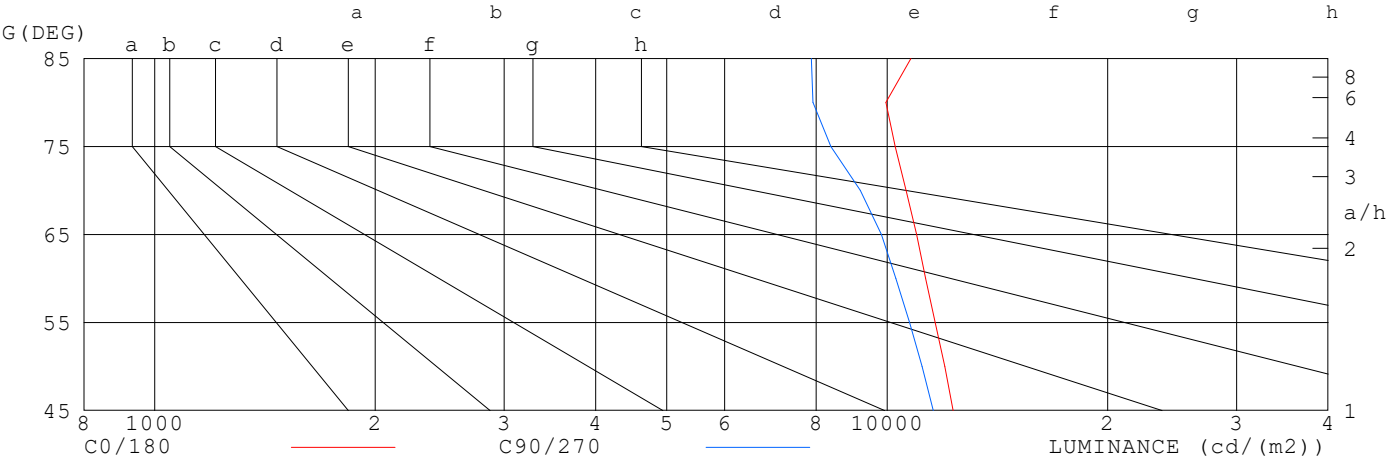
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 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	10777	7884
80	9965	7922
75	10256	8383
70	10611	9195
65	10972	9823
60	11283	10275
55	11633	10730
50	11986	11159
45	12310	11559

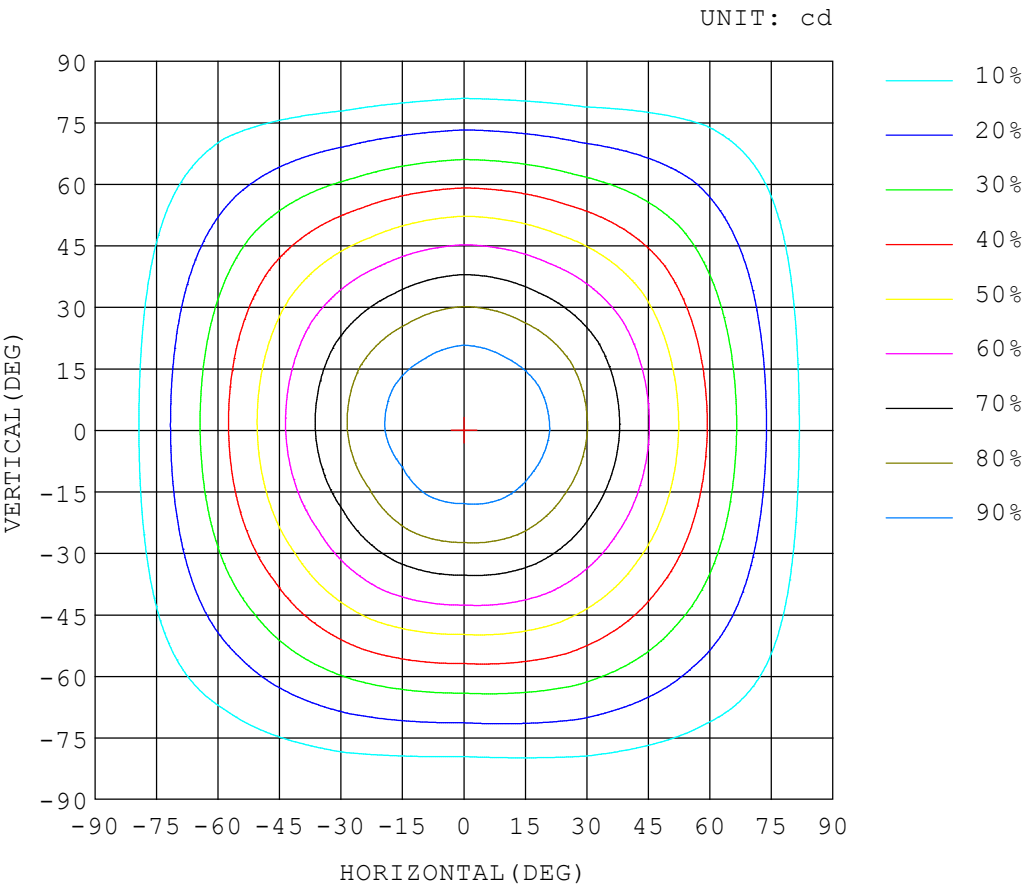
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:



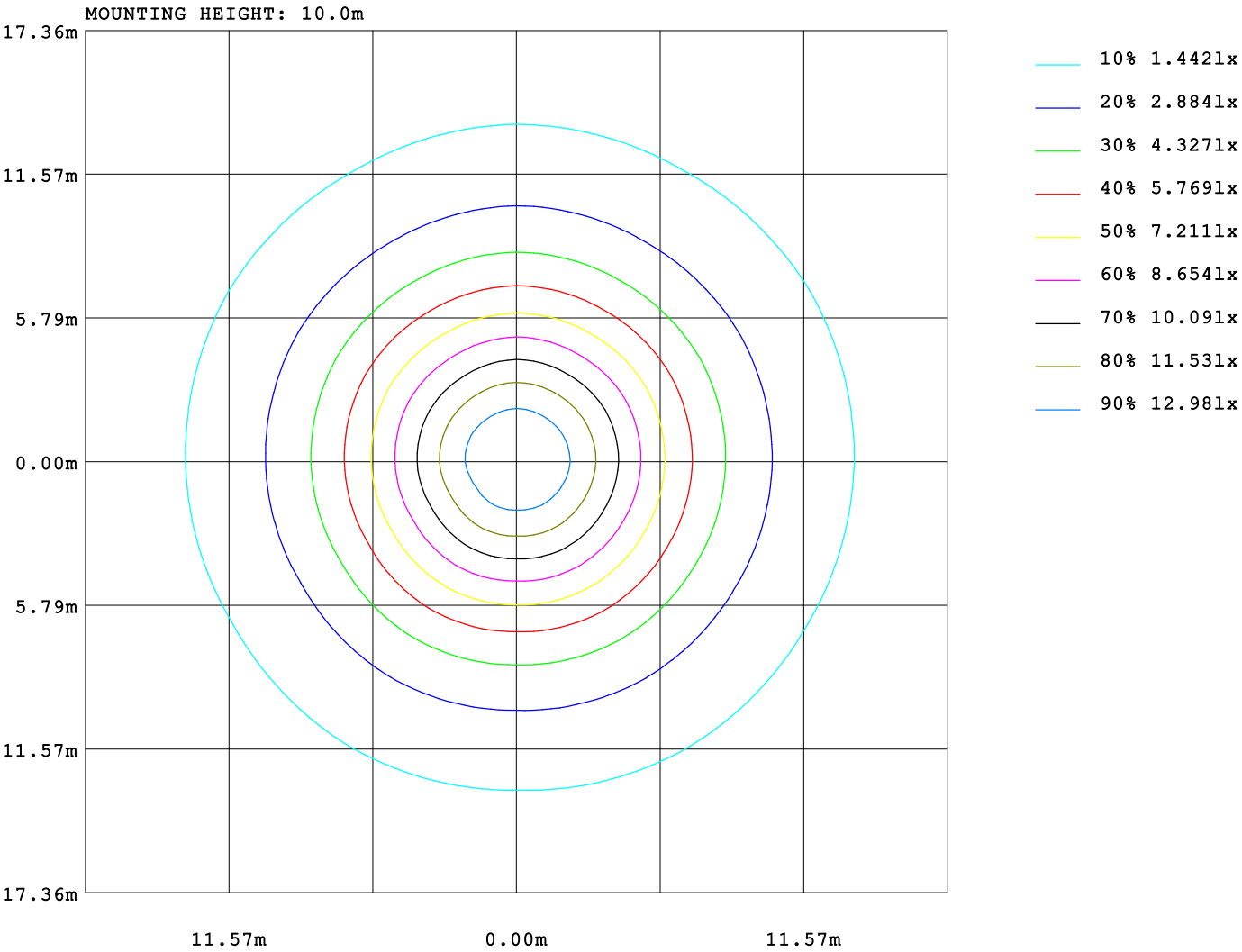
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON										TYPE: 4000K CRI-90					WEIGHT:					
SPECIFICATION:										DIMENSION: D-600 H-70 W-46 MM					SERIAL No.:					

90 80 70 60 50 40 30
--

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

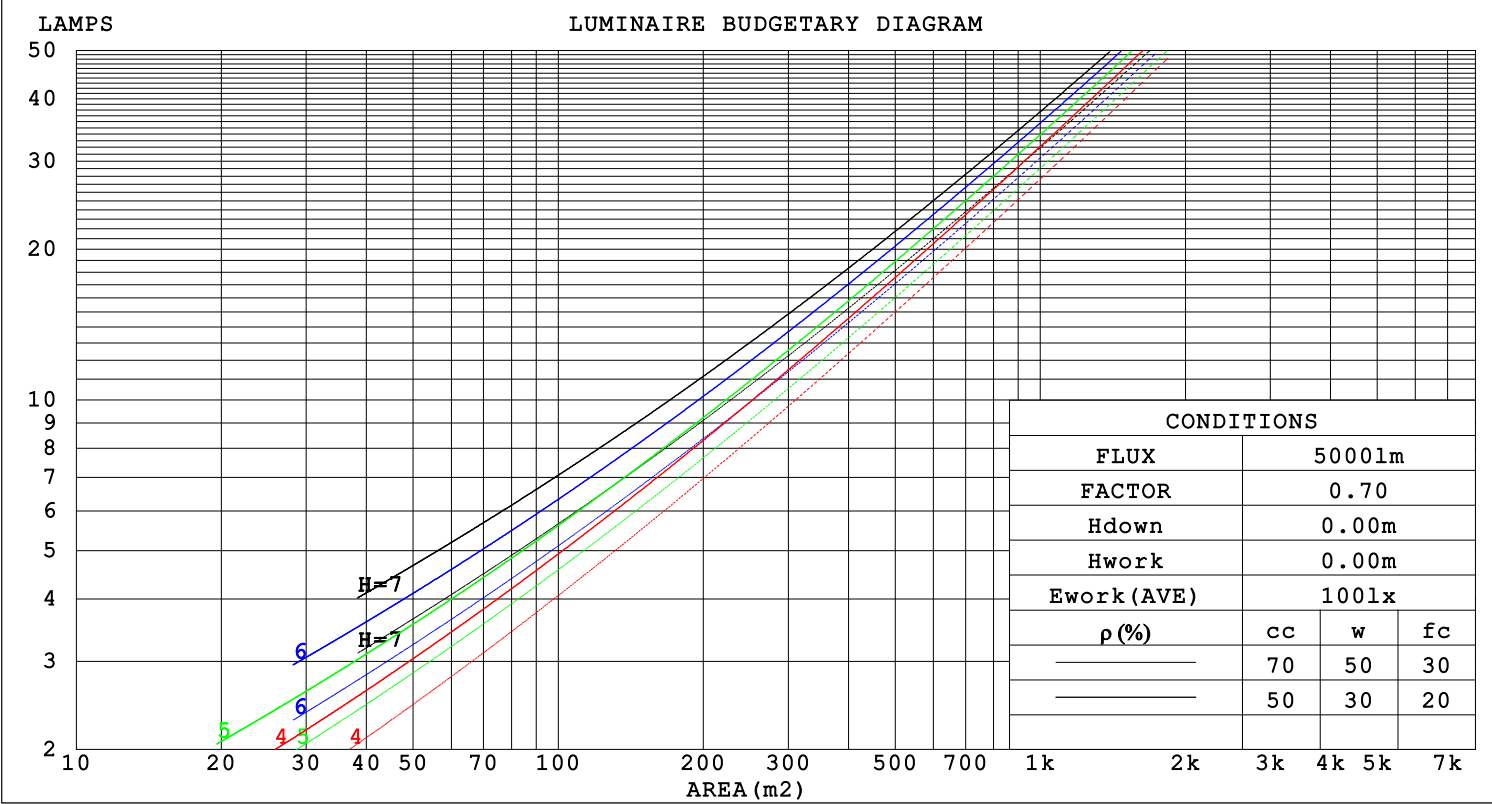
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS															
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019															
NAME: VIRAJ 45 HEXAGON								TYPE: 4000K CRI-90				WEIGHT:			
SPECIFICATION:								DIMENSION: D-600 H-70 W-46 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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.73	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.70	.61	.55	.67	.60	.54	.65	.59	.54	.63	.57	.53	.51
5.0	.63	.55	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: VIRAJ 45 HEXAGON								TYPE: 4000K CRI-90				WEIGHT:		
SPECIFICATION:								DIMENSION: D-600 H-70 W-46 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	.309	.176	.056	.302	.172	.055	.289	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.289	.158	.049	.283	.156	.048	.271	.151	.047	.260	.146	.046	.250	.142	.045	
3.0	.267	.142	.043	.261	.140	.042	.251	.136	.041	.242	.132	.041	.233	.129	.040	
4.0	.246	.128	.038	.241	.126	.037	.232	.123	.037	.224	.120	.036	.216	.117	.036	
5.0	.228	.116	.034	.223	.115	.033	.215	.112	.033	.208	.110	.033	.201	.107	.032	
6.0	.211	.106	.030	.207	.105	.030	.200	.103	.030	.193	.100	.030	.187	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.021	.155	.076	.021	.150	.075	.021	.146	.074	.021	

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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.096	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.090	.048	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-06-2025

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: VIRAJ 45 HEXAGON					TYPE: 4000K CRI-90			WEIGHT:			
SPECIFICATION:					DIMENSION: D-600 H-70 W-46 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	21.2	22.7	21.5	22.9	23.1	21.0	22.5	21.3	22.7	22.9	
	22.8	24.2	23.1	24.4	24.6	22.4	23.8	22.7	24.0	24.3	
	23.4	24.8	23.8	25.0	25.3	23.0	24.3	23.3	24.5	24.8	
	24.0	25.2	24.3	25.5	25.8	23.4	24.6	23.7	24.9	25.2	
	24.1	25.3	24.5	25.6	25.9	23.5	24.7	23.8	25.0	25.3	
	24.3	25.4	24.6	25.7	26.0	23.6	24.7	23.9	25.0	25.3	
4H	2H	21.8	23.1	22.1	23.4	23.6	21.6	23.0	22.0	23.2	23.5
	3H	23.5	24.7	23.9	25.0	25.3	23.3	24.4	23.6	24.7	25.0
	4H	24.3	25.4	24.7	25.7	26.0	23.9	25.0	24.3	25.3	25.7
	6H	24.9	25.9	25.3	26.2	26.6	24.5	25.4	24.9	25.8	26.1
	8H	25.2	26.1	25.6	26.4	26.8	24.7	25.5	25.1	25.9	26.3
	12H	25.4	26.2	25.8	26.6	27.0	24.8	25.6	25.2	26.0	26.4
8H	4H	24.5	25.4	25.0	25.8	26.2	24.2	25.1	24.7	25.5	25.9
	6H	25.3	26.1	25.8	26.5	26.9	24.9	25.7	25.4	26.1	26.5
	8H	25.7	26.3	26.1	26.7	27.2	25.2	25.9	25.7	26.3	26.8
	12H	26.0	26.5	26.4	27.0	27.4	25.5	26.0	25.9	26.5	27.0
12H	4H	24.6	25.4	25.0	25.8	26.2	24.3	25.1	24.7	25.5	25.9
	6H	25.4	26.0	25.8	26.5	26.9	25.0	25.7	25.5	26.1	26.5
	8H	25.8	26.3	26.2	26.8	27.2	25.4	25.9	25.8	26.4	26.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 3731 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 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) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	68	57	50	66	56	49	42
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	73	66	82	73	66	80	71	65	58
1.50	89	79	72	87	78	72	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	91	85	97	90	85	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

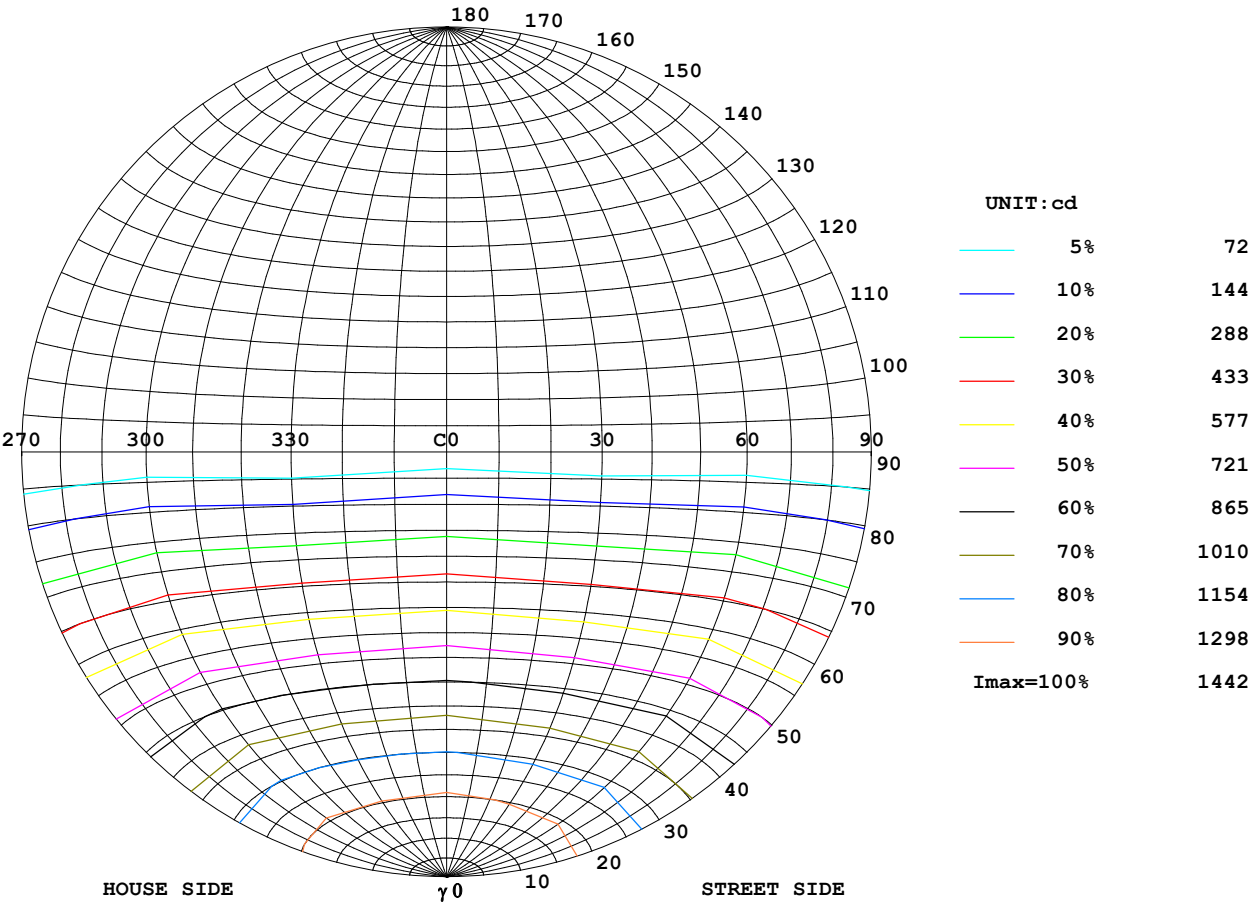
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

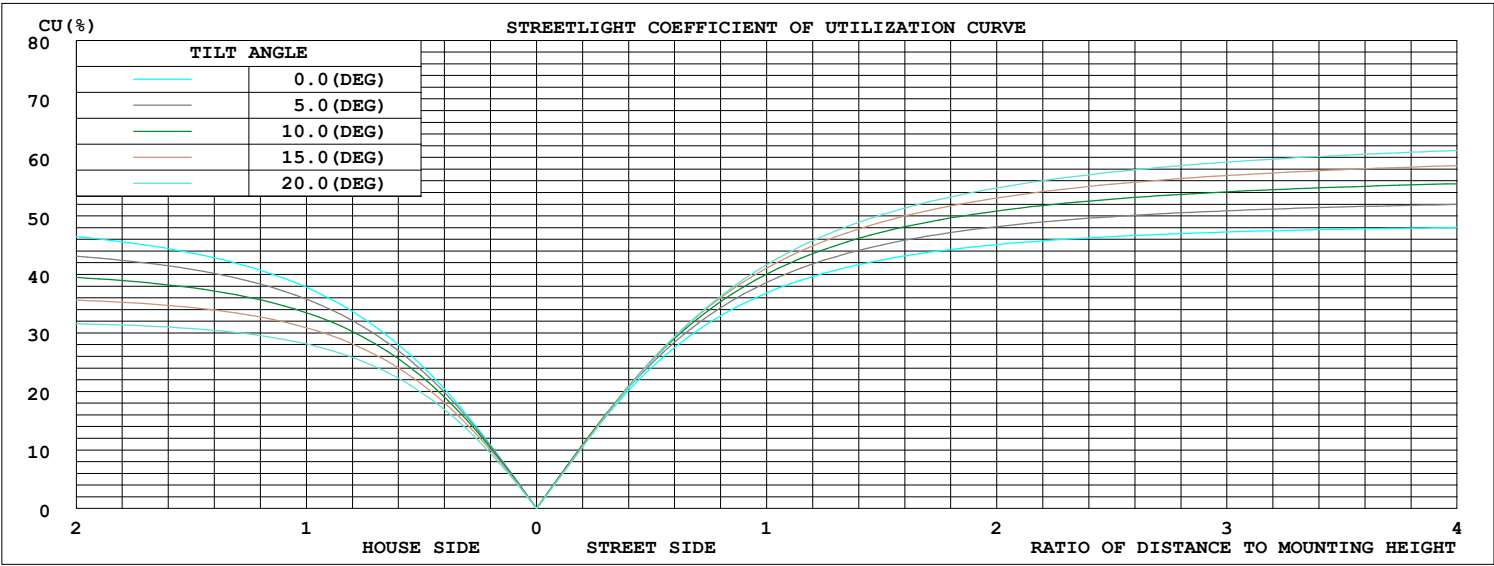
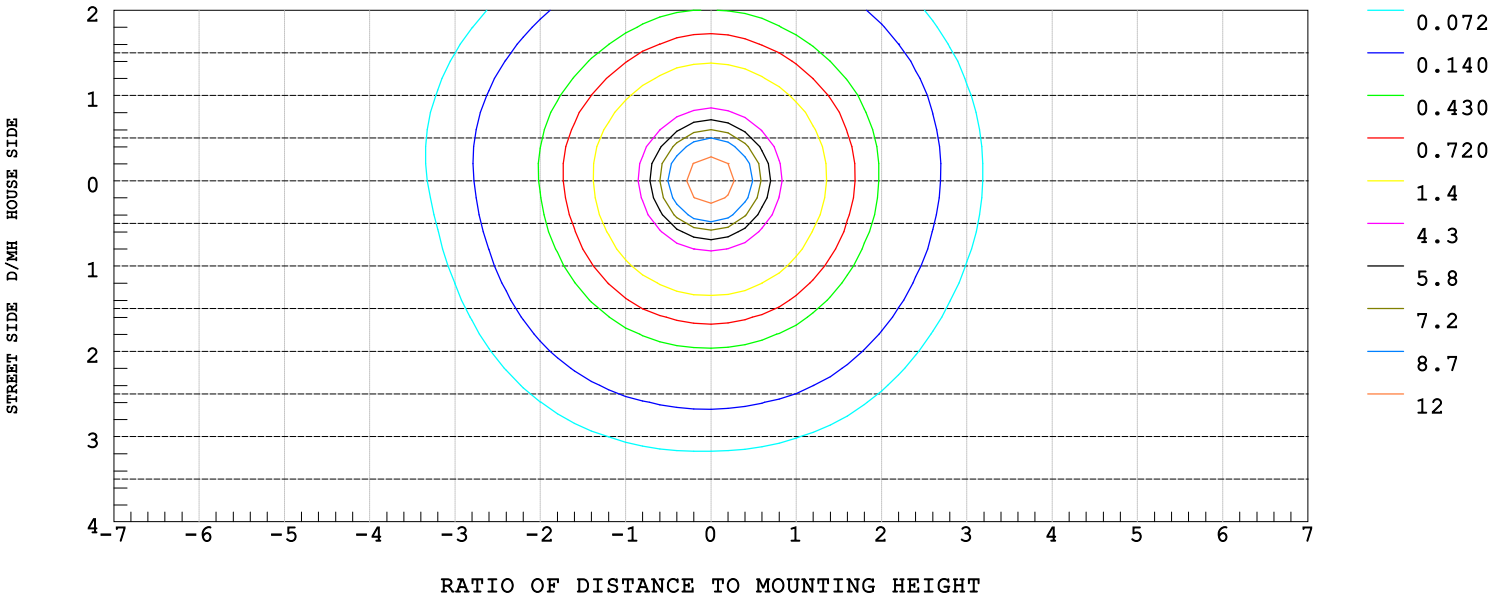
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.500 m
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 14.42 lx



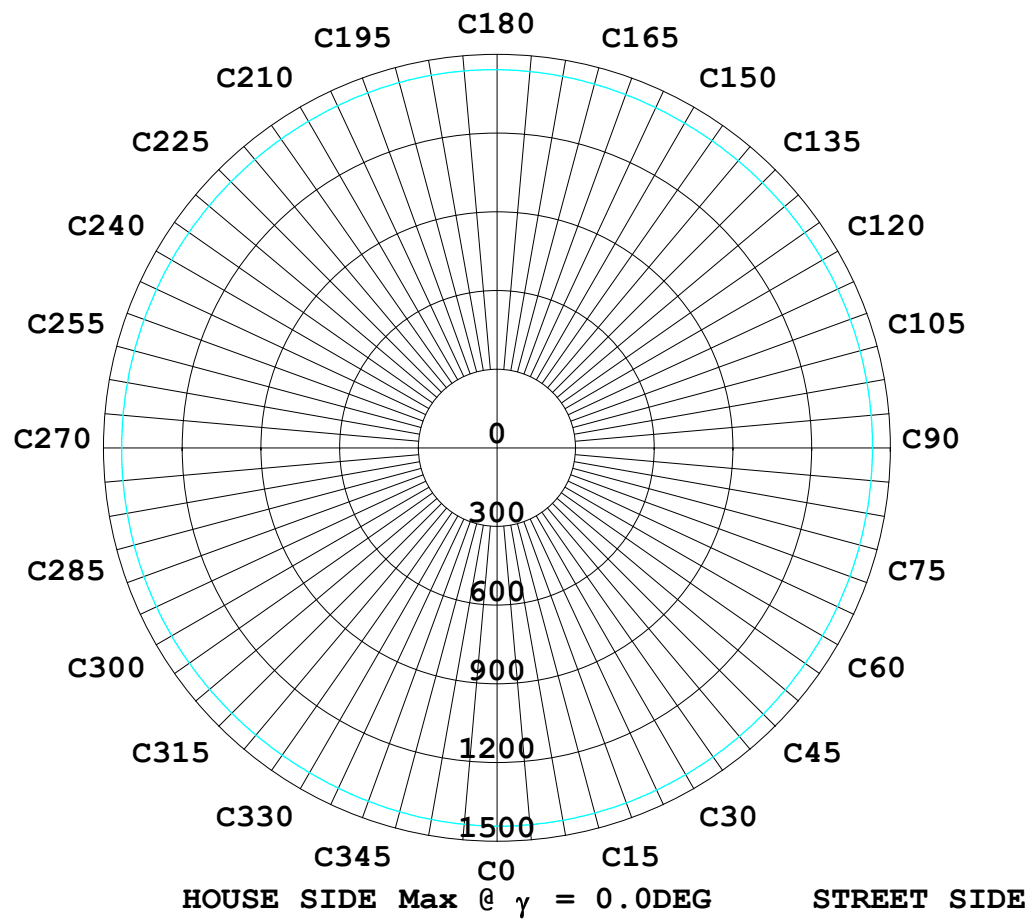
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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: VIRAJ 45 HEXAGON	TYPE: 4000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-600 H-70 W-46 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1442	1438	1433	1431	1433	1430	1442	1438	1433	1431	1433	1430
5.0	1435	1428	1423	1416	1418	1414	1429	1429	1425	1429	1427	1427
10.0	1410	1399	1392	1384	1386	1380	1398	1403	1400	1405	1403	1408
15.0	1368	1354	1347	1335	1337	1329	1351	1357	1356	1365	1364	1367
20.0	1312	1293	1287	1271	1275	1265	1289	1298	1296	1308	1303	1312
25.0	1239	1219	1213	1195	1200	1187	1211	1228	1222	1238	1232	1245
30.0	1156	1135	1128	1109	1113	1100	1128	1144	1140	1157	1151	1164
35.0	1069	1044	1039	1016	1022	1008	1034	1051	1047	1066	1060	1075
40.0	970	946	942	919	925	908	937	956	951	970	964	981
45.0	870	846	843	817	825	808	834	854	848	870	862	881
50.0	770	745	743	717	726	707	729	750	743	766	757	778
55.0	667	642	642	615	623	604	628	647	639	663	655	677
60.0	564	539	541	514	518	502	523	542	533	557	549	574
65.0	464	439	443	415	418	404	419	438	428	453	444	470
70.0	363	340	344	315	322	305	321	339	328	352	343	370
75.0	265	239	247	217	221	204	219	220	224	253	239	272
80.0	173	154	157	138	145	124	132	148	134	158	149	175
85.0	93.9	78.1	84.6	68.7	73.8	56.3	60.4	72.9	61.8	81.6	73.4	96.1
90.0	32.5	25.0	29.3	19.8	21.5	15.0	12.7	15.6	10.1	22.8	18.7	30.7

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:06-06-2025

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