

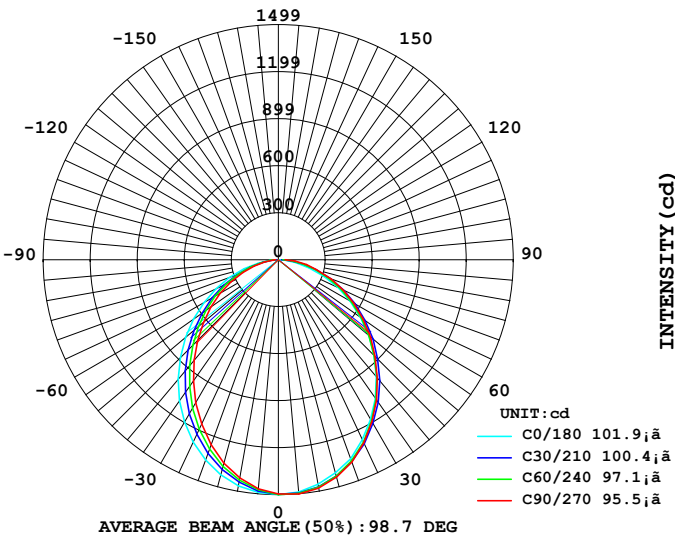
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

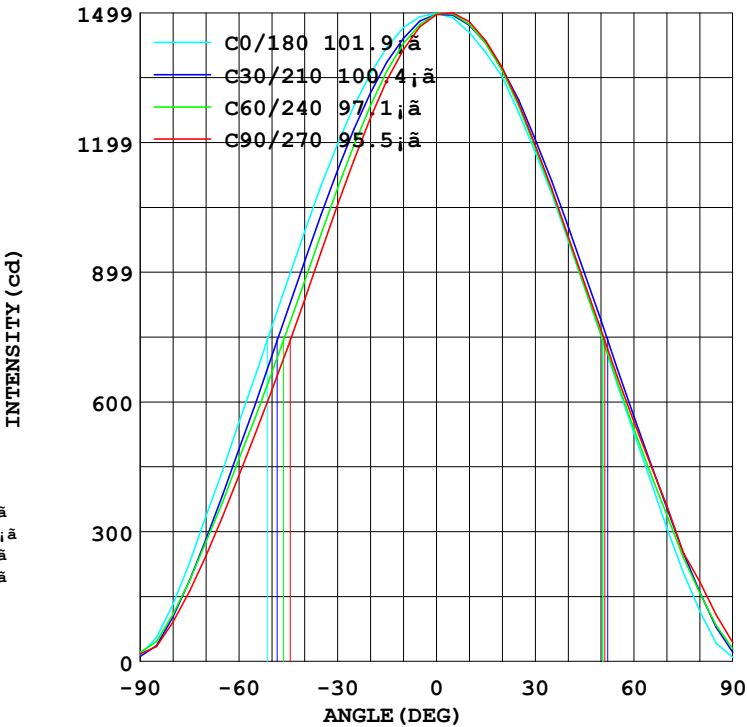
MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	1499	S/MH (C0/180)	1.19
MODEL	VIRAJ 45	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.08
NOMINAL POWER (W)	28	TOTAL FLUX (lm)	3681.7	Voltage (V)	219.6
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	131.3	Current (A)	0.130
NOMINAL FLUX (lm)	3681.8	η up (%)	0.0	Power (W)	28.04
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.986
TEST VOLTAGE (V)	219.6	Effictive Flux (lm)	3575.8	EEI	0.107

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

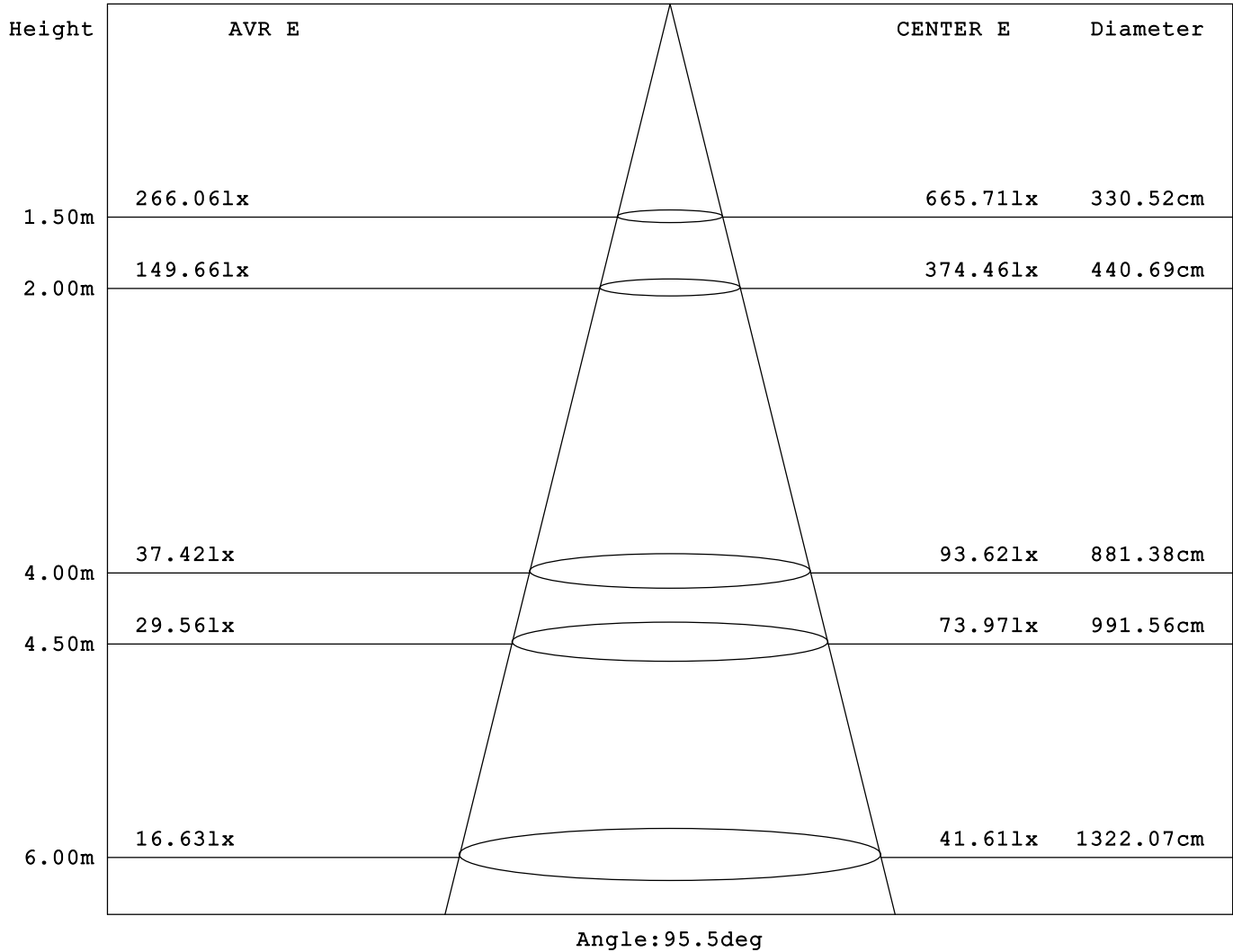
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:



Test System:HOPOO HPG1800

Temperature:25.3DEG

Operators:

Test Date:03-08-2025

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

Humidity:65.0%

Test Distance:9.000 m

Remarks: 5700K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	1465	1434	1414	1428	1454	1472	1479	1477	0- 10	140.7	140.7
20.0	1359	1299	1256	1287	1351	1368	1373	1375	10- 20	394.6	535.3
30.0	1196	1115	1055	1099	1177	1198	1194	1207	20- 30	575.1	1111
40.0	993.0	901.6	835.5	883.9	973.6	991.8	983.3	1000	30- 40	658.4	1769
50.0	772.7	685.6	625.5	669.1	753.6	772.0	766.7	780.0	40- 50	645.8	2415
60.0	550.9	478.1	428.5	464.2	527.5	551.6	553.7	560.3	50- 60	554.9	2970
70.0	334.4	278.4	242.8	260.4	308.0	346.3	359.3	353.7	60- 70	407.7	3378
80.0	131.3	105.3	90.23	99.63	115.6	158.8	183.7	165.6	70- 80	229.2	3607
90.0	14.25	16.20	17.09	16.28	9.234	25.15	43.01	28.47	80- 90	74.95	3682
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:03-08-2025

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

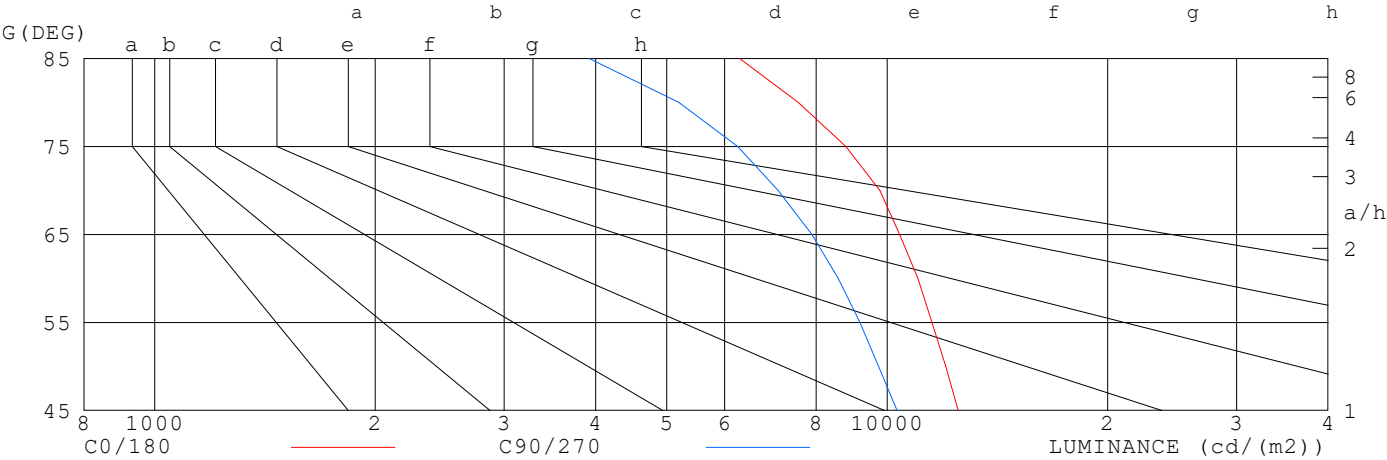
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

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	6292	3922
80	7561	5196
75	8782	6253
70	9779	7100
65	10402	7893
60	11019	8571
55	11518	9183
50	12022	9732
45	12510	10316

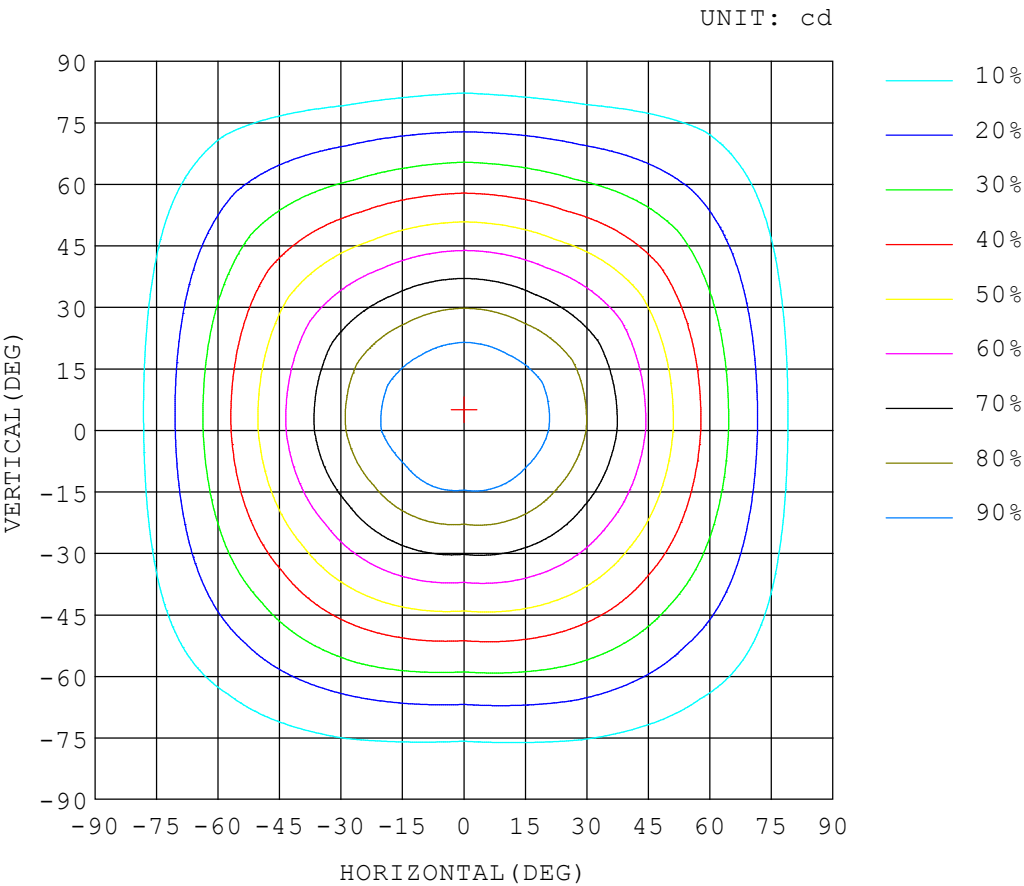
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:



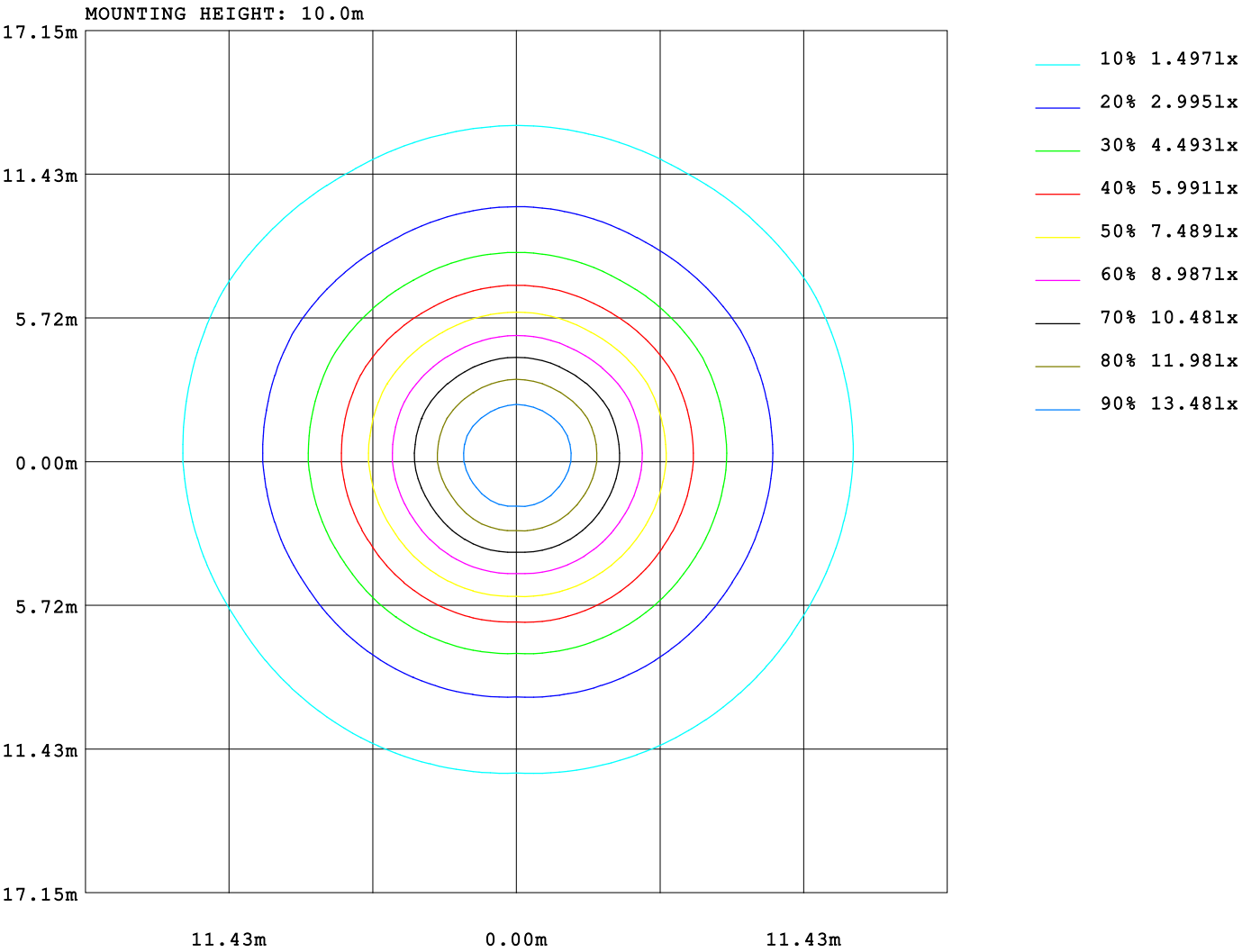
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY																				
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019																				
NAME: VIRAJ 45									TYPE: 5700K CRI-90							WEIGHT:				
SPECIFICATION: FULHAM 600 MA									DIMENSION: 1200*46* 70 MM							SERIAL No.:				

90 80 70 60 50 40 30 <

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: DIVINITY

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

NAME: VIRAJ 45

TYPE: 5700K CRI-90

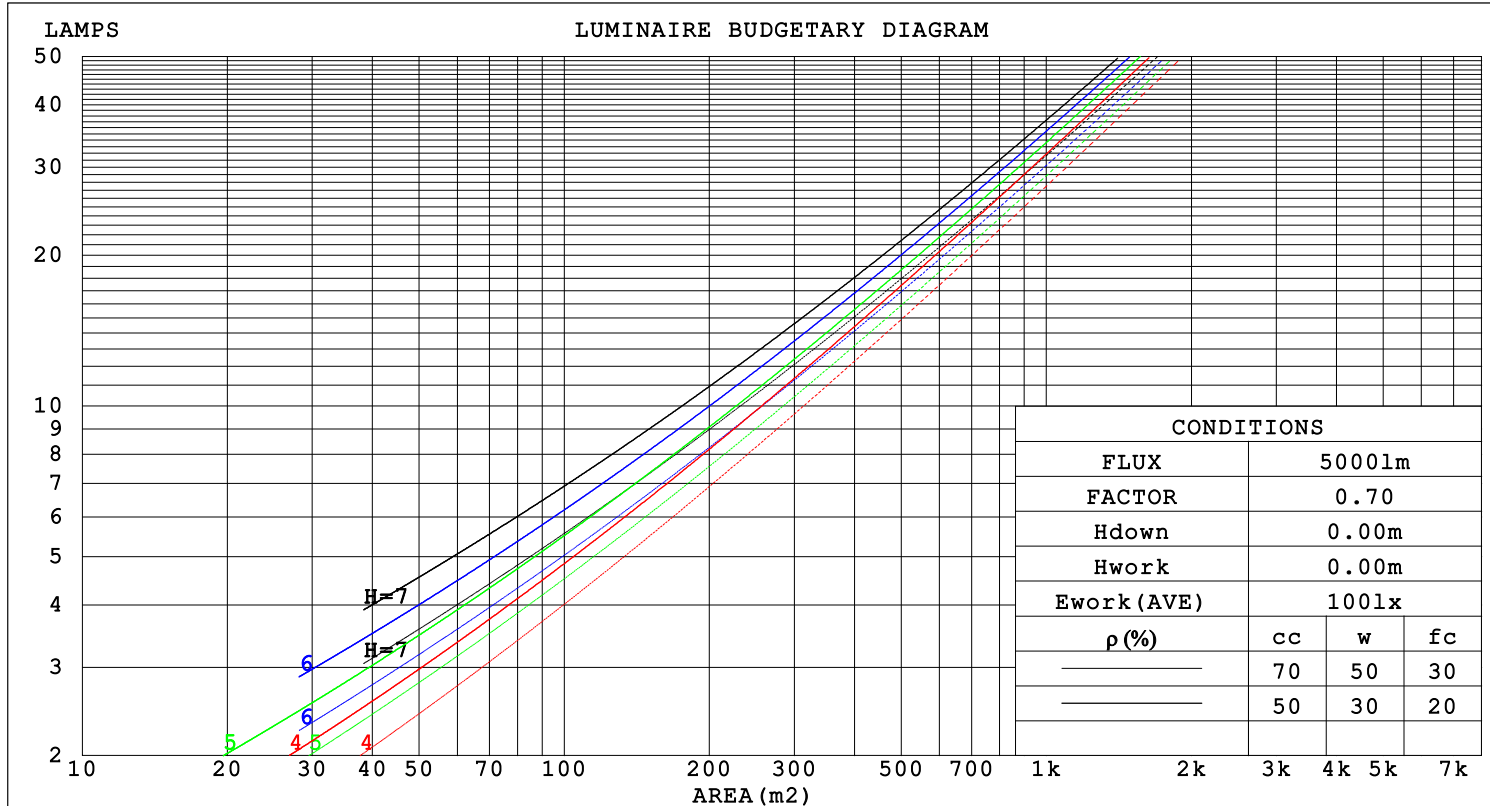
WEIGHT:

SPECIFICATION: FULHAM 600 MA

DIMENSION: 1200*46* 70 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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84												
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71												
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60												
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52												
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45												
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40												
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.35												
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32												
9.0	.44	.36	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.29												
10.0	.41	.33	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26												



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019														
NAME: VIRAJ 45								TYPE: 5700K CRI-90				WEIGHT:		
SPECIFICATION: FULHAM 600 MA								DIMENSION: 1200*46* 70 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	.301	.171	.054	.294	.168	.053	.281	.161	.051	.269	.155	.050	.258	.149	.048	
2.0	.283	.155	.048	.277	.152	.047	.265	.147	.046	.254	.143	.045	.244	.138	.044	
3.0	.262	.139	.042	.257	.137	.041	.246	.133	.041	.237	.130	.040	.228	.126	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.106	.032	
6.0	.208	.104	.030	.205	.103	.030	.197	.101	.029	.191	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.024	.163	.083	.024	
9.0	.171	.082	.023	.168	.082	.023	.163	.080	.023	.158	.079	.023	.153	.078	.022	
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.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	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019											
NAME: VIRAJ 45					TYPE: 5700K CRI-90			WEIGHT:			
SPECIFICATION: FULHAM 600 MA					DIMENSION: 1200*46* 70 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	20.9	22.4	21.2	22.6	22.8	20.1	21.6	20.4	21.8	22.0	
	3H	22.3	23.7	22.6	23.9	24.2	21.3	22.6	21.6	22.9	23.1
	4H	22.9	24.2	23.2	24.4	24.7	21.7	23.0	22.0	23.3	23.5
	6H	23.2	24.4	23.5	24.7	25.0	21.9	23.2	22.3	23.4	23.7
	8H	23.2	24.4	23.6	24.7	25.0	21.9	23.1	22.3	23.4	23.7
	12H	23.3	24.4	23.6	24.7	25.0	21.9	23.1	22.3	23.4	23.7
4H	2H	21.4	22.7	21.7	22.9	23.2	20.7	22.0	21.0	22.3	22.5
	3H	22.9	24.0	23.3	24.3	24.6	22.1	23.2	22.4	23.5	23.8
	4H	23.5	24.6	23.9	24.9	25.2	22.6	23.7	23.0	24.0	24.3
	6H	24.0	24.9	24.4	25.2	25.6	23.0	23.9	23.4	24.2	24.6
	8H	24.0	24.9	24.5	25.3	25.7	23.0	23.9	23.4	24.2	24.6
	12H	24.1	24.9	24.5	25.3	25.7	23.0	23.8	23.5	24.2	24.6
8H	4H	23.7	24.5	24.1	24.9	25.3	22.9	23.7	23.3	24.1	24.5
	6H	24.2	24.9	24.6	25.3	25.7	23.3	24.0	23.7	24.4	24.8
	8H	24.3	24.9	24.8	25.4	25.8	23.4	24.0	23.8	24.4	24.9
	12H	24.4	25.0	24.9	25.4	25.9	23.5	24.0	23.9	24.5	24.9
12H	4H	23.7	24.5	24.1	24.8	25.2	22.8	23.6	23.3	24.0	24.4
	6H	24.2	24.8	24.6	25.2	25.7	23.3	23.9	23.8	24.4	24.8
	8H	24.3	24.9	24.8	25.3	25.8	23.4	24.0	23.9	24.4	24.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.4					
2.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.6					

CIE Pub.117 Corrected 3682 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.5)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:03-08-2025

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

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 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	60	48	42	59	48	41	58	48	41	35
0.80	69	58	51	68	58	51	67	57	51	44
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	74	68	83	74	67	81	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	86	98	91	85	94	88	84	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	100	107	102	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

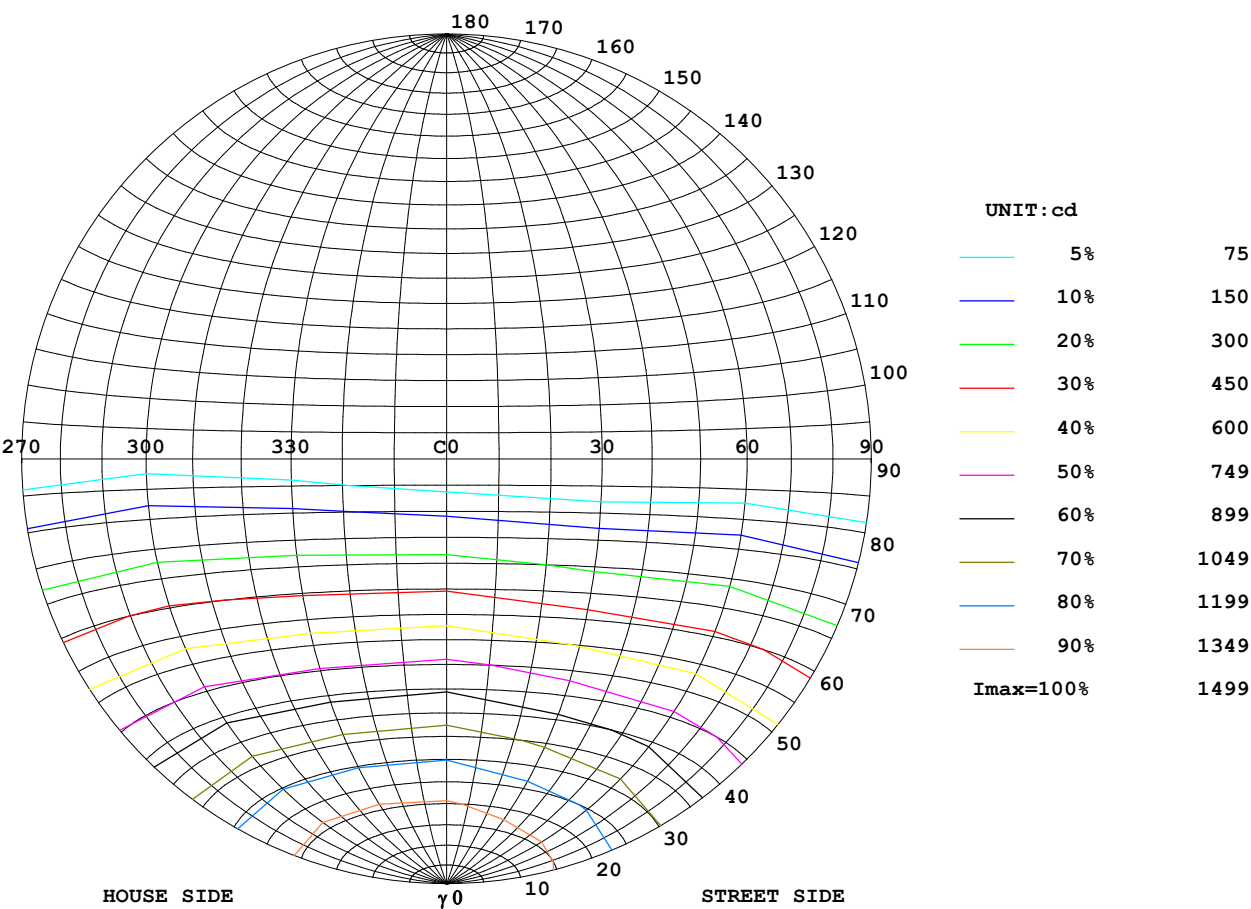
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 Temperature: 25.3 DEG
 Operators:
 Test Date: 03-08-2025

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		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
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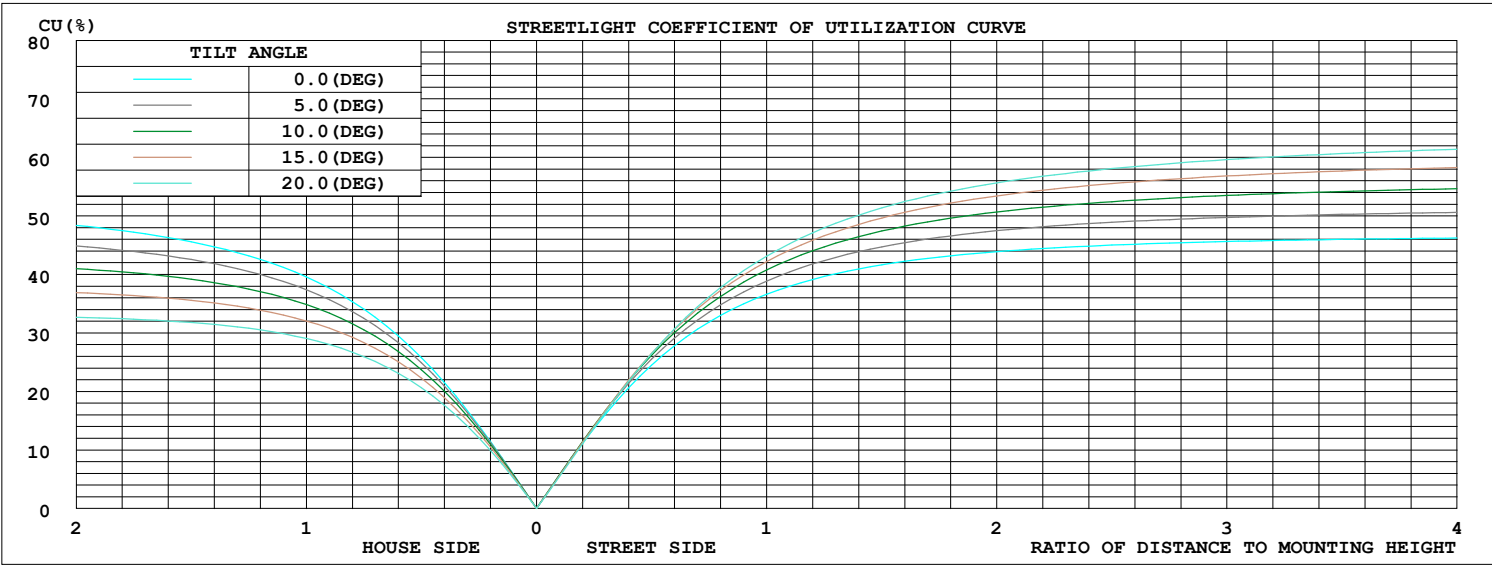
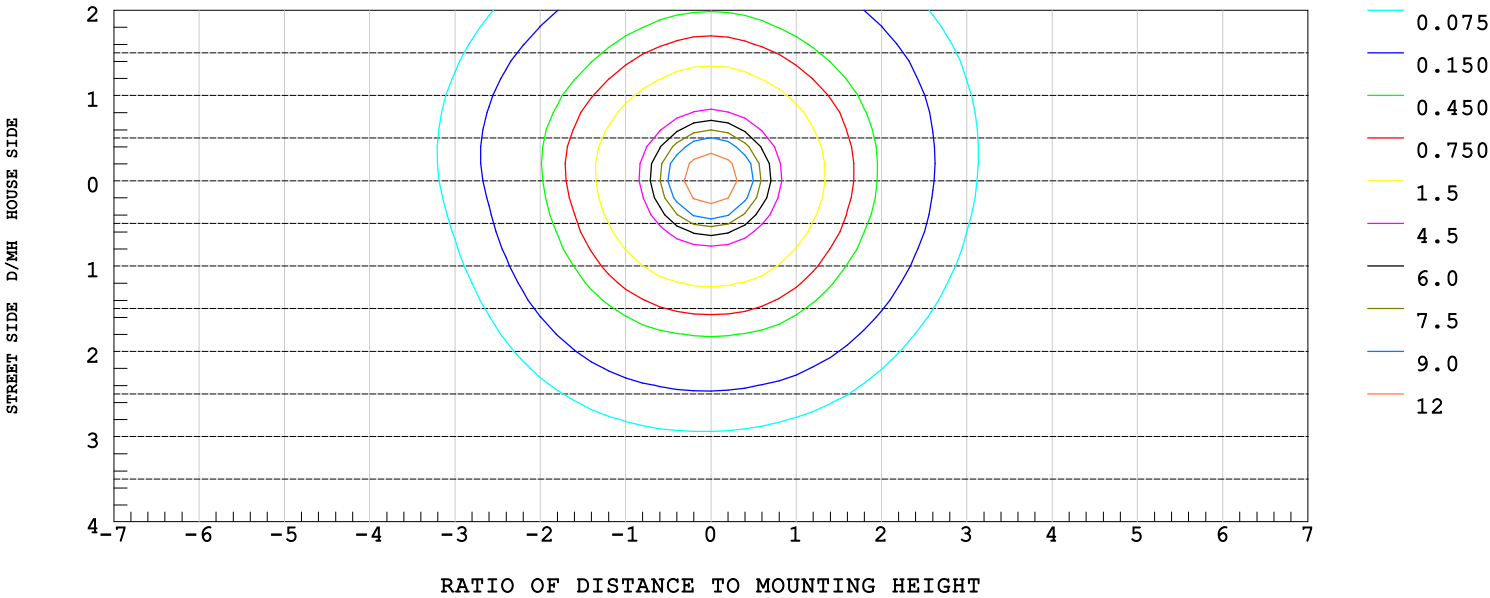
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ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 14.98 lx



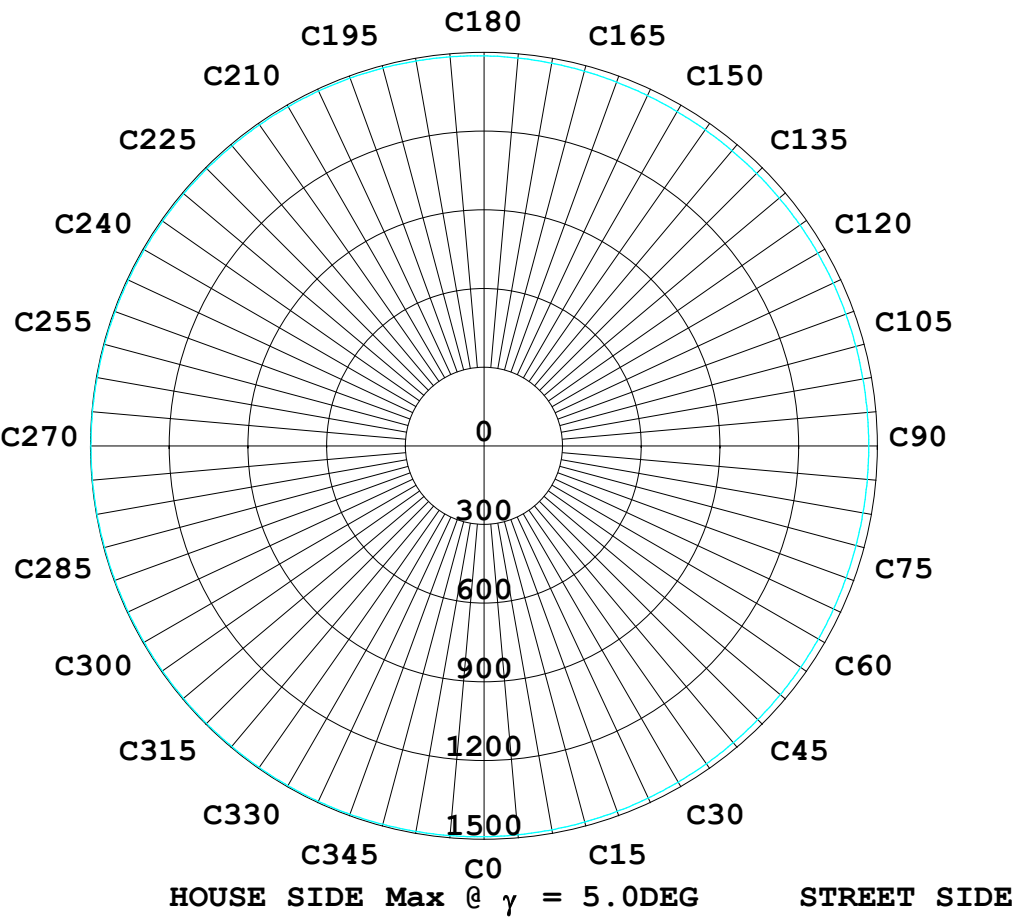
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:03-08-2025

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		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
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Temperature:25.3DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi, Rajasthan 301019		
NAME: VIRAJ 45	TYPE: 5700K CRI-90	WEIGHT:
SPECIFICATION: FULHAM 600 MA	DIMENSION: 1200*46* 70 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	1498	1495	1497	1494	1496	1494	1498	1495	1497	1494	1496	1494
5.0	1490	1480	1472	1466	1470	1472	1487	1493	1496	1499	1497	1496
10.0	1465	1440	1428	1414	1424	1431	1454	1471	1472	1479	1478	1476
15.0	1420	1386	1365	1343	1359	1373	1406	1429	1428	1434	1433	1439
20.0	1359	1314	1284	1256	1277	1298	1351	1370	1365	1373	1369	1382
25.0	1284	1230	1193	1158	1182	1211	1268	1298	1284	1289	1290	1309
30.0	1196	1136	1094	1055	1083	1115	1177	1207	1188	1194	1193	1221
35.0	1099	1032	987	945	976	1010	1081	1110	1088	1093	1091	1124
40.0	993	924	879	836	868	900	974	1006	978	983	980	1020
45.0	885	816	773	729	762	793	863	896	864	873	870	911
50.0	773	705	666	626	655	683	754	788	756	767	759	801
55.0	661	595	564	527	555	573	640	677	646	658	650	690
60.0	551	489	467	429	458	470	528	566	538	554	542	579
65.0	440	384	367	334	360	368	420	460	437	456	441	472
70.0	334	281	275	243	253	268	308	354	338	359	342	366
75.0	227	186	186	162	181	175	206	251	241	252	245	250
80.0	131	102	108	90.2	105	94.4	116	160	158	184	162	170
85.0	54.8	36.9	45.5	34.1	43.6	32.0	41.6	79.0	83.5	108	86.9	87.5
90.0	14.2	11.5	20.8	17.0	20.9	11.5	9.23	21.2	29.0	43.0	31.5	25.3

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