

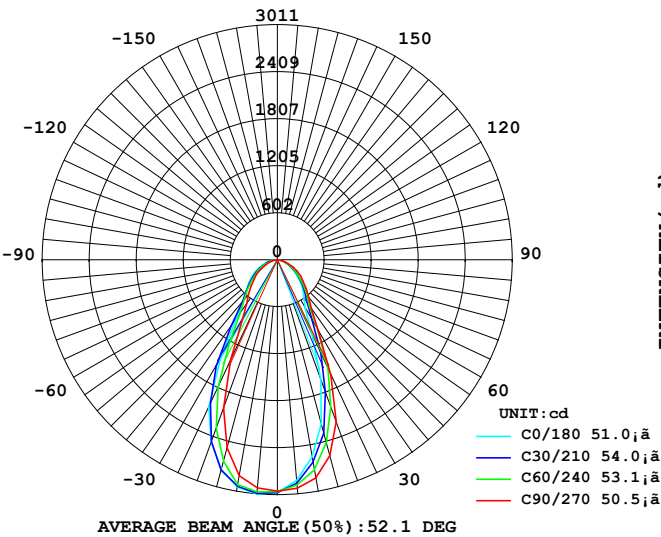
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

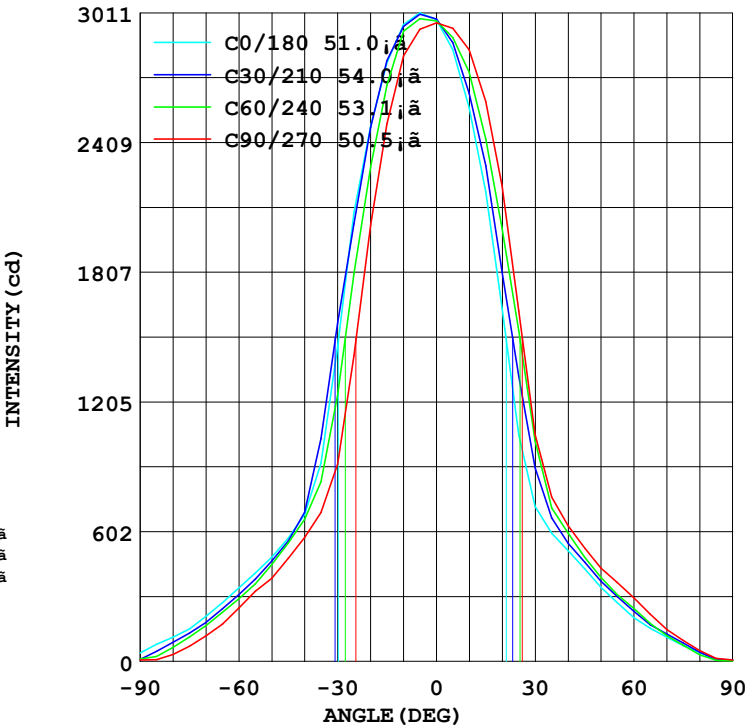
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	3011	S/MH (C0/180)	0.88
MODEL	VIRAJ 100	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.76
NOMINAL POWER (W)	35	TOTAL FLUX (lm)	3294.3	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	94.4	Current (A)	0.160
NOMINAL FLUX (lm)	3294.4	η up (%)	0.0	Power (W)	34.90
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.937
TEST VOLTAGE (V)	219.8	Effictive Flux (lm)	2902.5	EEI	0.164

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:7.500 m
Remarks: 3000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:

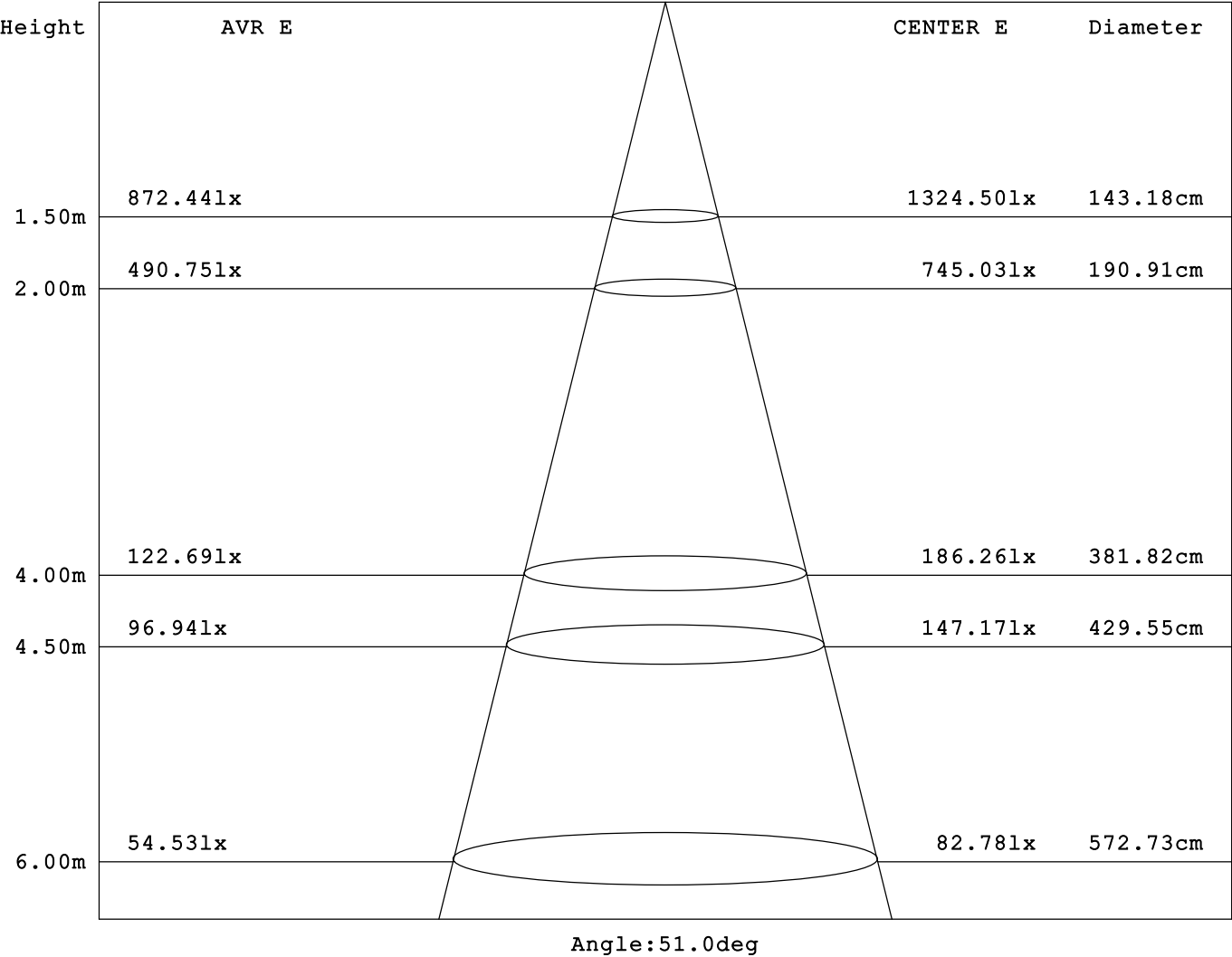
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.500 m
Remarks: 3000K

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: DIVINITY LIGHTS		
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NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 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%
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Remarks: 3000K

ZONAL FLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	2957	2938	2811	2598	2571	2686	2840	2937	0- 10	274.9	274.9
20.0	2483	2386	2024	1726	1639	1909	2207	2510	10- 20	697.5	972.5
30.0	1462	1404	916.0	849.5	719.2	962.3	1054	1596	20- 30	744.5	1717
40.0	682.7	677.0	576.0	527.5	515.0	572.2	630.3	760.3	30- 40	526.7	2244
50.0	484.3	457.3	386.1	345.1	344.3	380.6	433.0	496.8	40- 50	397.2	2641
60.0	341.4	299.5	246.9	205.6	202.2	239.0	295.4	331.5	50- 60	306.0	2947
70.0	208.0	173.6	118.8	106.3	111.5	123.3	148.1	200.5	60- 70	205.7	3153
80.0	112.5	76.97	31.33	22.80	40.95	36.47	49.38	96.21	70- 80	108.1	3261
90.0	39.26	10.29	6.412	8.775	5.568	4.415	6.918	17.04	80- 90	33.30	3294
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)
Humidity:65.0%
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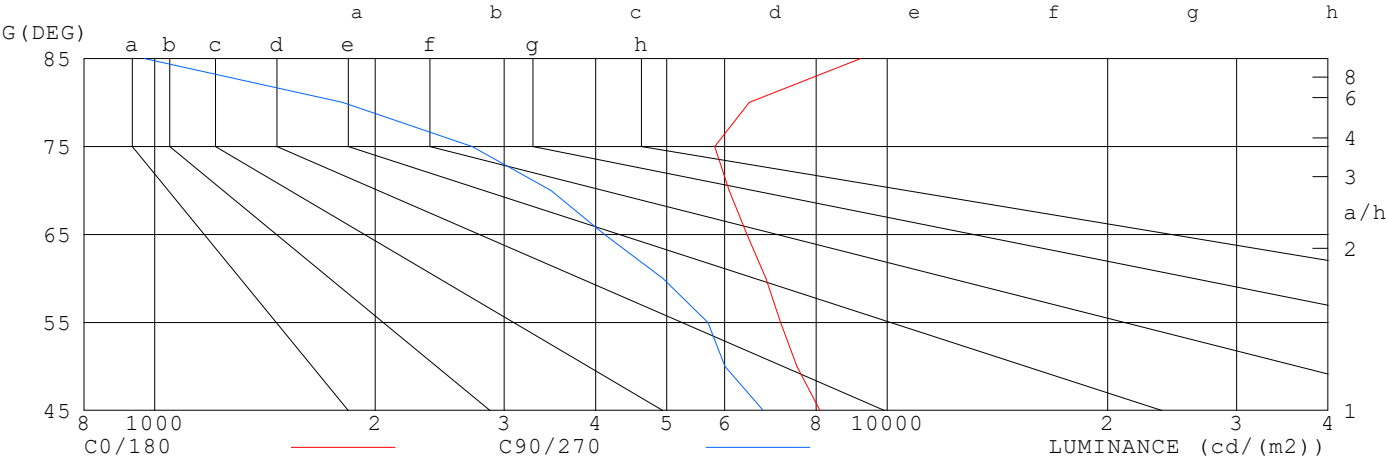
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 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	9203	968
80	6482	1804
75	5814	2712
70	6084	3473
65	6437	4113
60	6830	4940
55	7152	5693
50	7535	6007
45	8097	6776

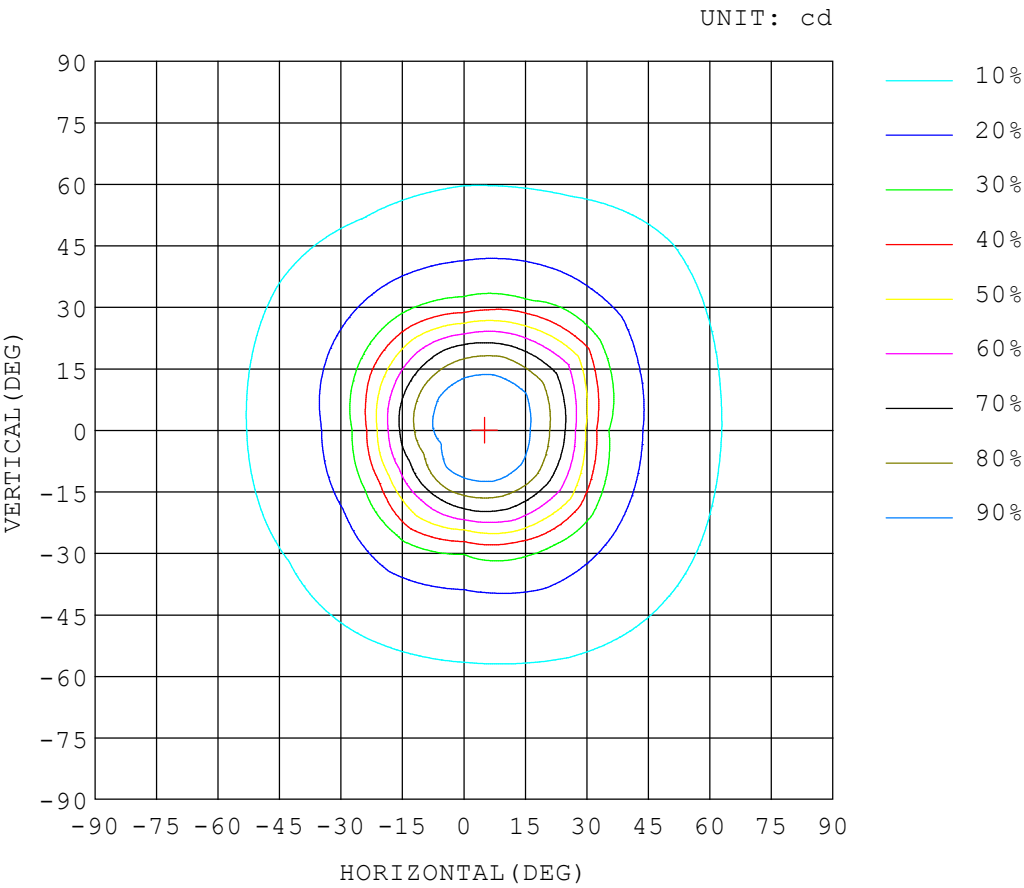
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.500 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:



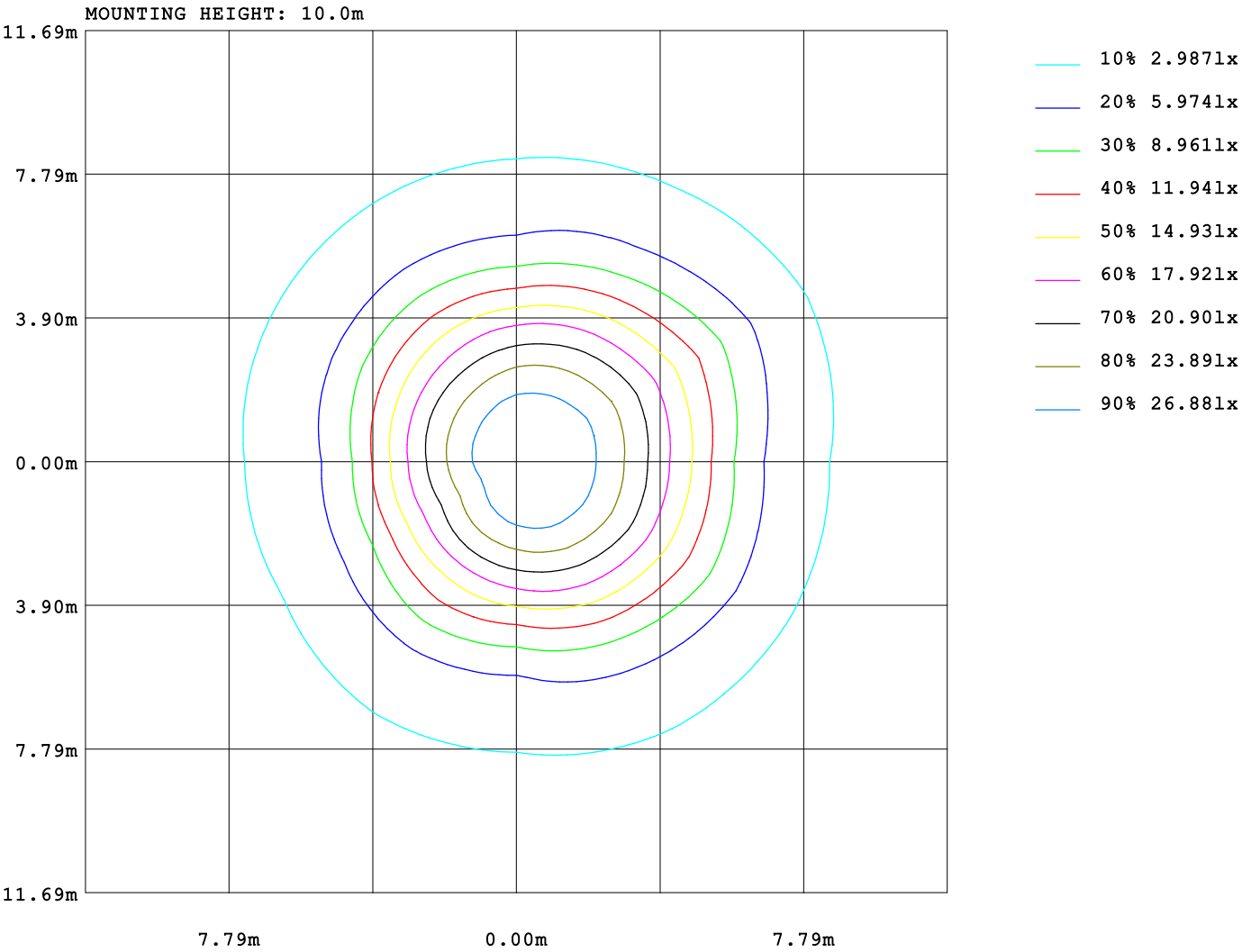
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.500 m
Remarks: 3000K

ISOLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 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:7.500 m
Remarks: 3000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																			
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																			
NAME: VIRAJ 100										TYPE: 3000K CRI-90					WEIGHT:				
SPECIFICATION:										DIMENSION: 1200*100*120 MM					SERIAL No.:				

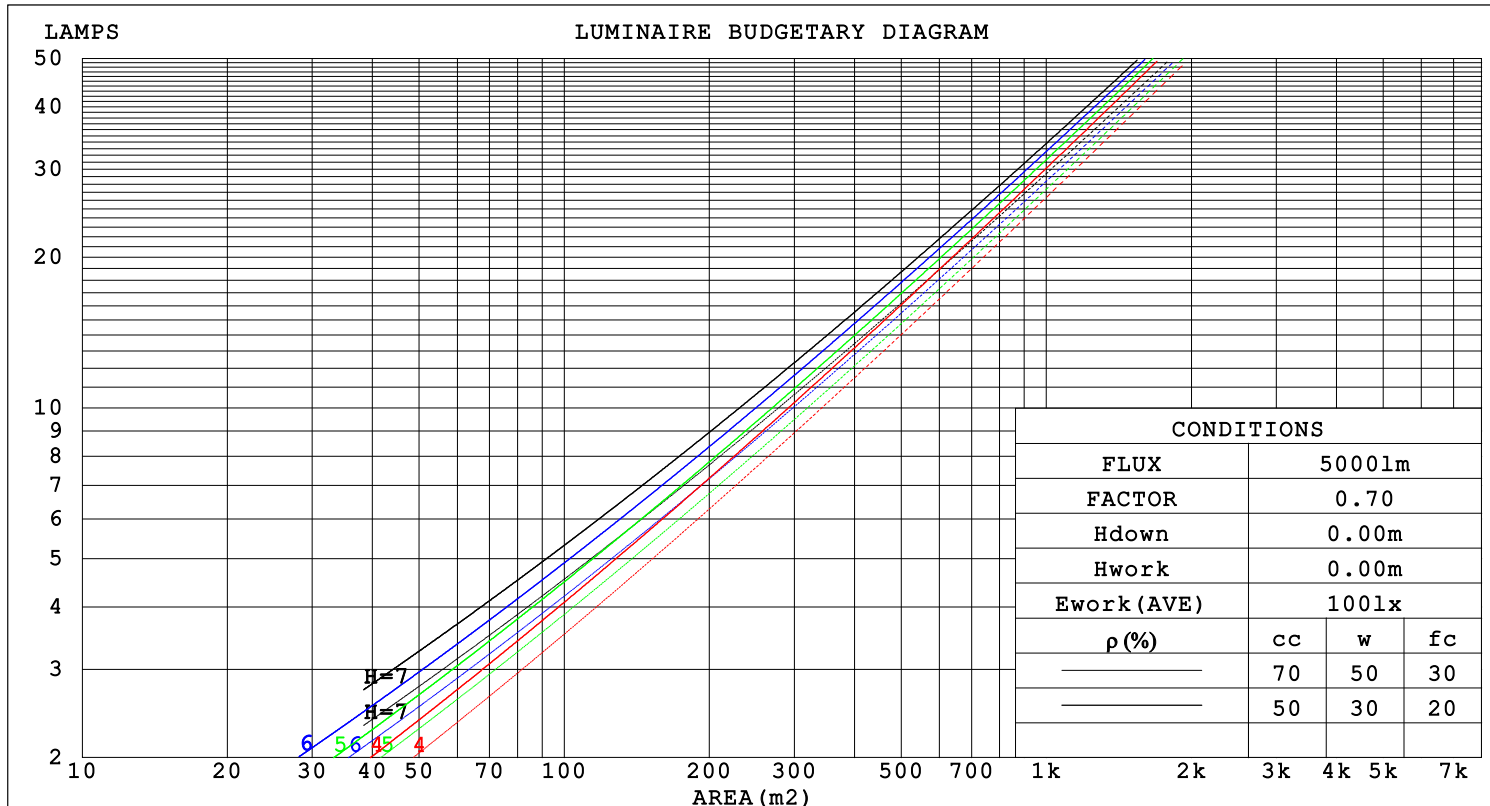
VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.02	0.05	0.10	0.14	0.17	0.21	0.29	0.45	0.59	0.71	0.78	0.79	0.84	0.89	0.84	0.63	0.35	0.11	7.94	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
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:7.500 m
Remarks: 3000K

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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89														
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79														
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.73	.79	.75	.72	.70														
4.0	.81	.74	.68	.80	.73	.68	.77	.72	.67	.75	.70	.66	.73	.69	.65	.64														
5.0	.74	.67	.62	.73	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58														
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.55	.65	.59	.55	.63	.58	.55	.53														
7.0	.64	.57	.51	.63	.56	.51	.62	.56	.51	.60	.55	.51	.59	.54	.50	.49														
8.0	.60	.52	.48	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.45														
9.0	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42														
10.0	.52	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.49	.44	.41	.39														



Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.500 m
Remarks: 3000K

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: VIRAJ 100							TYPE: 3000K CRI-90					WEIGHT:		
SPECIFICATION:							DIMENSION: 1200*100*120 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	.240	.137	.043	.233	.133	.042	.220	.126	.040	.209	.120	.039	.198	.115	.037															
2.0	.227	.125	.038	.221	.122	.038	.210	.117	.036	.200	.112	.035	.191	.108	.034															
3.0	.213	.113	.034	.208	.111	.033	.198	.107	.033	.189	.104	.032	.181	.100	.031															
4.0	.199	.103	.030	.194	.102	.030	.186	.099	.029	.178	.096	.029	.171	.093	.028															
5.0	.186	.095	.027	.182	.093	.027	.174	.091	.027	.168	.088	.026	.161	.086	.026															
6.0	.174	.087	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024															
7.0	.164	.081	.023	.161	.080	.023	.155	.078	.023	.149	.077	.022	.144	.075	.022															
8.0	.155	.076	.021	.152	.075	.021	.147	.073	.021	.142	.072	.021	.137	.070	.020															
9.0	.146	.071	.020	.144	.070	.020	.139	.069	.019	.135	.067	.019	.130	.066	.019															
10.0	.139	.066	.018	.136	.066	.018	.132	.065	.018	.128	.064	.018	.124	.063	.018															

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	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.153	.114	.082	.132	.098	.071	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.029	.016	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.111	.062	.028	.095	.053	.025	.066	.038	.018	.038	.022	.011	.012	.007	.003	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.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:7.500 m
Remarks: 3000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: VIRAJ 100					TYPE: 3000K CRI-90			WEIGHT:			
SPECIFICATION:					DIMENSION: 1200*100*120 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	18.4	19.6	18.6	19.8	20.0	17.4	18.6	17.6	18.8	19.0
	3H	19.7	20.8	20.0	21.0	21.2	18.3	19.4	18.5	19.6	19.8
	4H	20.3	21.3	20.6	21.6	21.8	18.5	19.6	18.8	19.8	20.1
	6H	20.9	21.9	21.2	22.1	22.4	18.6	19.6	18.9	19.8	20.1
	8H	21.2	22.2	21.5	22.4	22.7	18.6	19.5	18.9	19.8	20.1
	12H	21.5	22.4	21.9	22.7	23.0	18.5	19.4	18.9	19.7	20.0
4H	2H	18.8	19.9	19.1	20.1	20.3	18.0	19.1	18.3	19.3	19.5
	3H	20.3	21.2	20.6	21.5	21.8	19.1	20.0	19.5	20.3	20.6
	4H	21.0	21.8	21.4	22.1	22.5	19.5	20.4	19.9	20.7	21.0
	6H	21.7	22.5	22.1	22.8	23.2	19.7	20.4	20.1	20.8	21.1
	8H	22.2	22.9	22.6	23.2	23.6	19.6	20.3	20.1	20.7	21.1
	12H	22.6	23.2	23.0	23.6	24.0	19.6	20.3	20.0	20.6	21.0
8H	4H	21.2	21.9	21.6	22.2	22.6	19.8	20.5	20.2	20.9	21.3
	6H	22.1	22.6	22.5	23.0	23.5	20.1	20.7	20.5	21.1	21.5
	8H	22.6	23.1	23.0	23.5	24.0	20.1	20.6	20.6	21.0	21.5
	12H	23.1	23.5	23.6	24.0	24.4	20.1	20.6	20.6	21.0	21.5
12H	4H	21.1	21.8	21.6	22.2	22.6	19.9	20.5	20.3	20.9	21.3
	6H	22.1	22.6	22.5	23.0	23.4	20.2	20.7	20.6	21.1	21.6
	8H	22.6	23.1	23.1	23.5	24.0	20.2	20.7	20.7	21.1	21.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.3 / - 0.3				
1.5H		+ 0.1 / - 0.2					+ 0.2 / - 0.4				
2.0H		+ 0.3 / - 0.4					+ 0.4 / - 1.1				

CIE Pub.117 Corrected 3294 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

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:7.500 m
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UTILIZATION FACTORS TABLE

Report number:

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NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 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	72	63	57	71	62	57	70	62	57	52
0.80	81	72	66	80	71	66	78	71	66	60
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	92	84	79	89	83	79	73
1.50	97	90	84	95	89	84	93	87	83	77
2.00	102	95	91	100	94	90	97	92	88	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	110	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

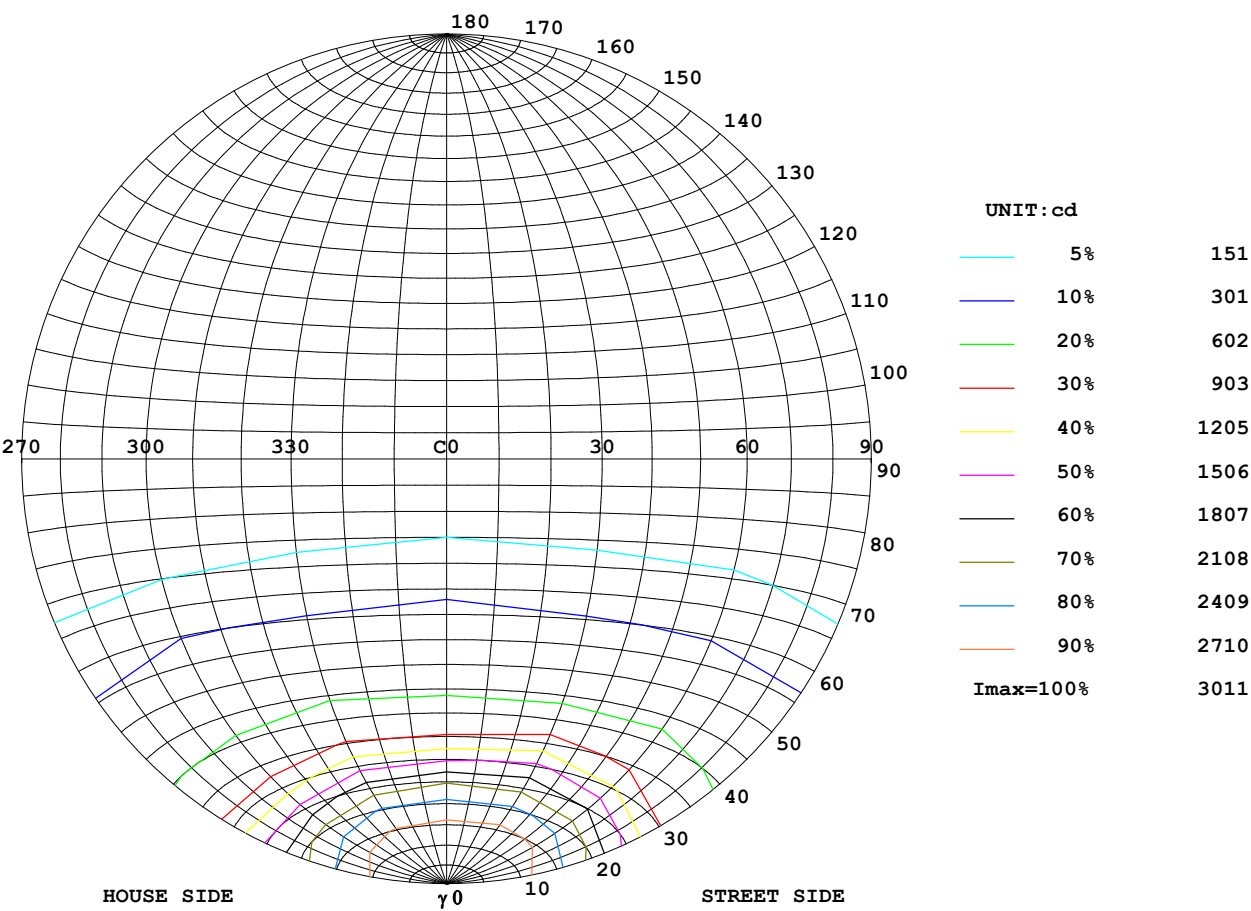
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Test Set: 5.0deg/s C-Gamma (TYPE C)
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 Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:



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

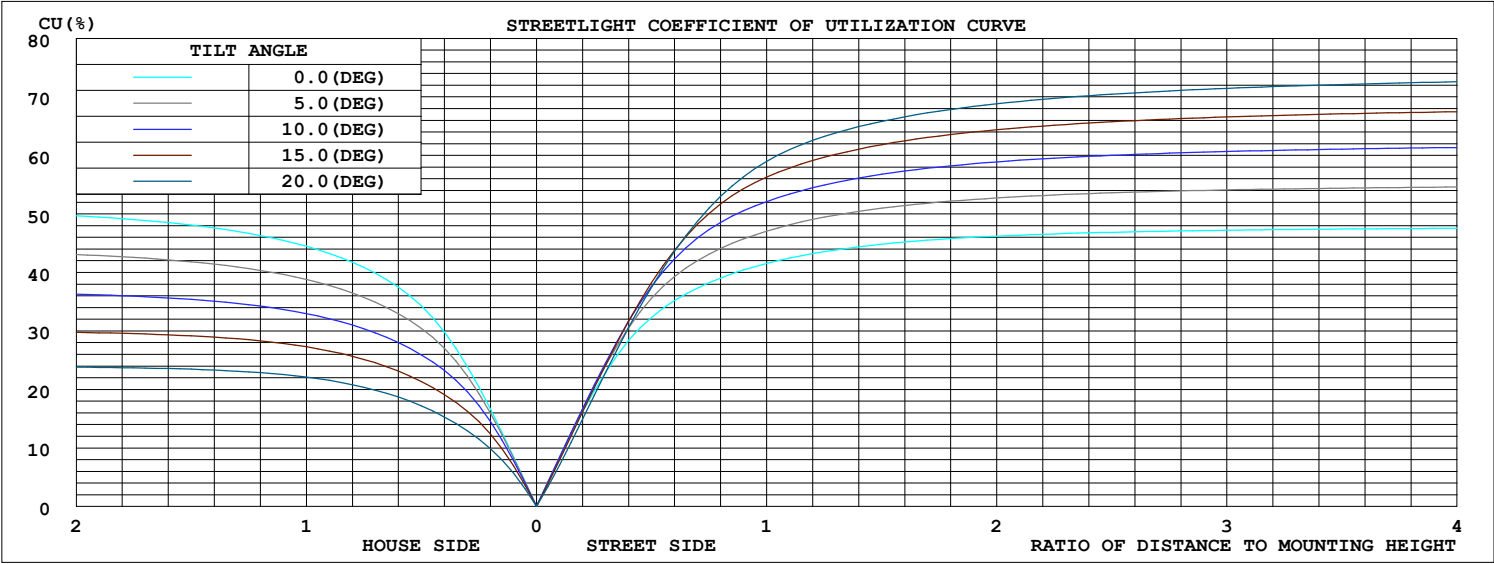
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ISOLUX DIAGRAM

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 29.80 lx



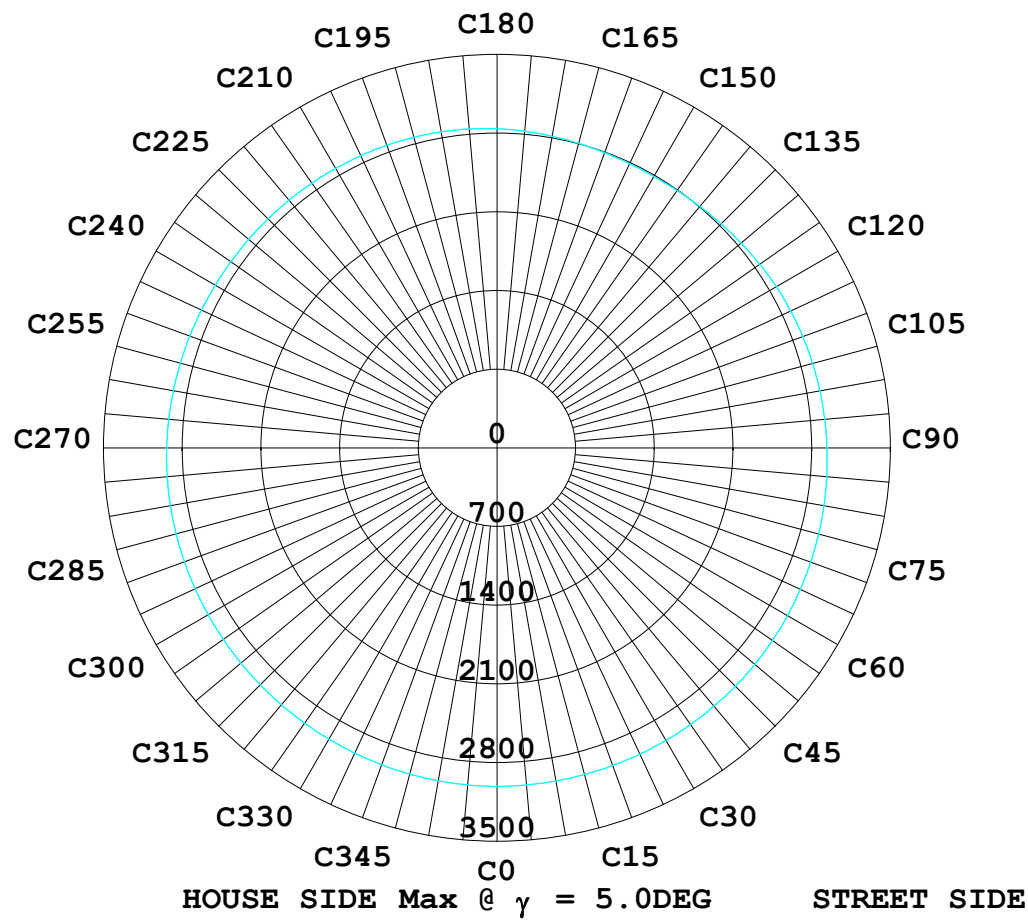
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.500 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 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:7.500 m
Remarks: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: VIRAJ 100	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*100*120 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	2980	2983	2973	2964	2956	2942	2980	2983	2973	2964	2956	2942
5.0	3011	3005	2984	2935	2869	2789	2840	2873	2896	2939	2969	2992
10.0	2957	2948	2927	2811	2690	2506	2571	2637	2735	2840	2911	2963
15.0	2779	2789	2675	2495	2319	2130	2180	2302	2425	2599	2731	2841
20.0	2483	2478	2294	2024	1809	1643	1639	1807	2010	2207	2434	2586
25.0	2083	2031	1800	1419	1404	1101	1053	1324	1535	1628	1957	2220
30.0	1462	1571	1237	916	932	768	719	900	1025	1054	1400	1792
35.0	921	1035	834	691	681	593	595	666	712	763	919	1285
40.0	683	693	661	576	567	488	515	548	596	630	699	822
45.0	573	559	550	479	457	398	430	462	484	527	577	625
50.0	484	466	449	386	371	320	344	372	389	433	471	523
55.0	410	383	360	327	294	254	272	302	310	366	381	432
60.0	341	309	290	247	226	185	202	232	246	295	309	354
65.0	272	244	228	174	161	137	154	171	177	219	253	284
70.0	208	181	166	119	114	98.6	112	126	120	148	180	221
75.0	150	132	114	70.2	67.5	60.1	73.7	84.8	75.2	96.7	125	164
80.0	113	88.8	65.1	31.3	25.2	20.4	40.9	42.8	30.1	49.3	75.4	117
85.0	80.2	46.1	23.3	8.43	11.7	6.13	8.15	9.56	5.23	14.3	28.4	72.6
90.0	39.2	9.50	11.0	6.41	9.90	7.65	5.56	6.18	2.64	6.91	5.62	28.4

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