

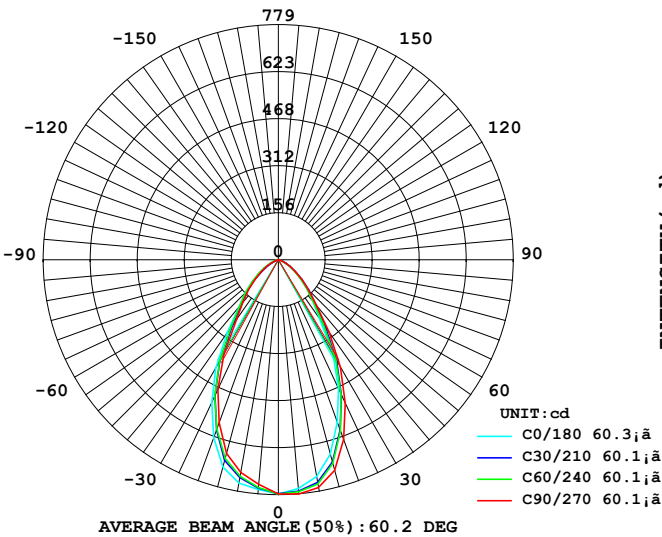
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

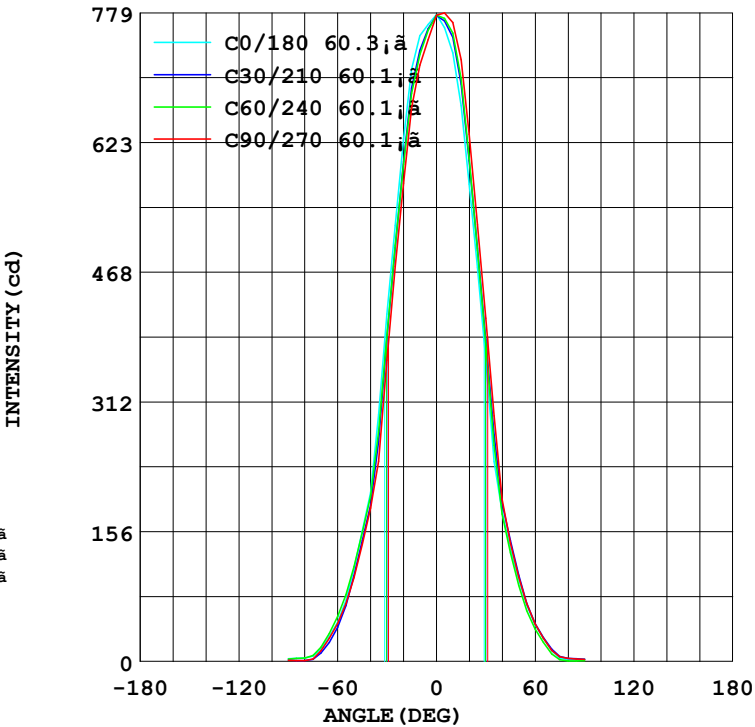
MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:

DATA OF LAMP		Imax (cd)	779.3	S/MH (C0/180)	0.94
MODEL	TRION DUO	EFFICIENCY (%)	100.0	S/MH (C90/270)	0.87
NOMINAL POWER (W)	15	TOTAL FLUX (lm)	875.92	Voltage (V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	58.0	Current (A)	0.073
NOMINAL FLUX (lm)	875.9	η up (%)	0.0	Power (W)	15.10
LAMPS QUANTITY	1	η down (%)	100.0	Power Factor (PF)	0.954
TEST VOLTAGE (V)	219.8	Effictive Flux (lm)	807.4	EEI	0.234

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

Color Temperature Data List

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:

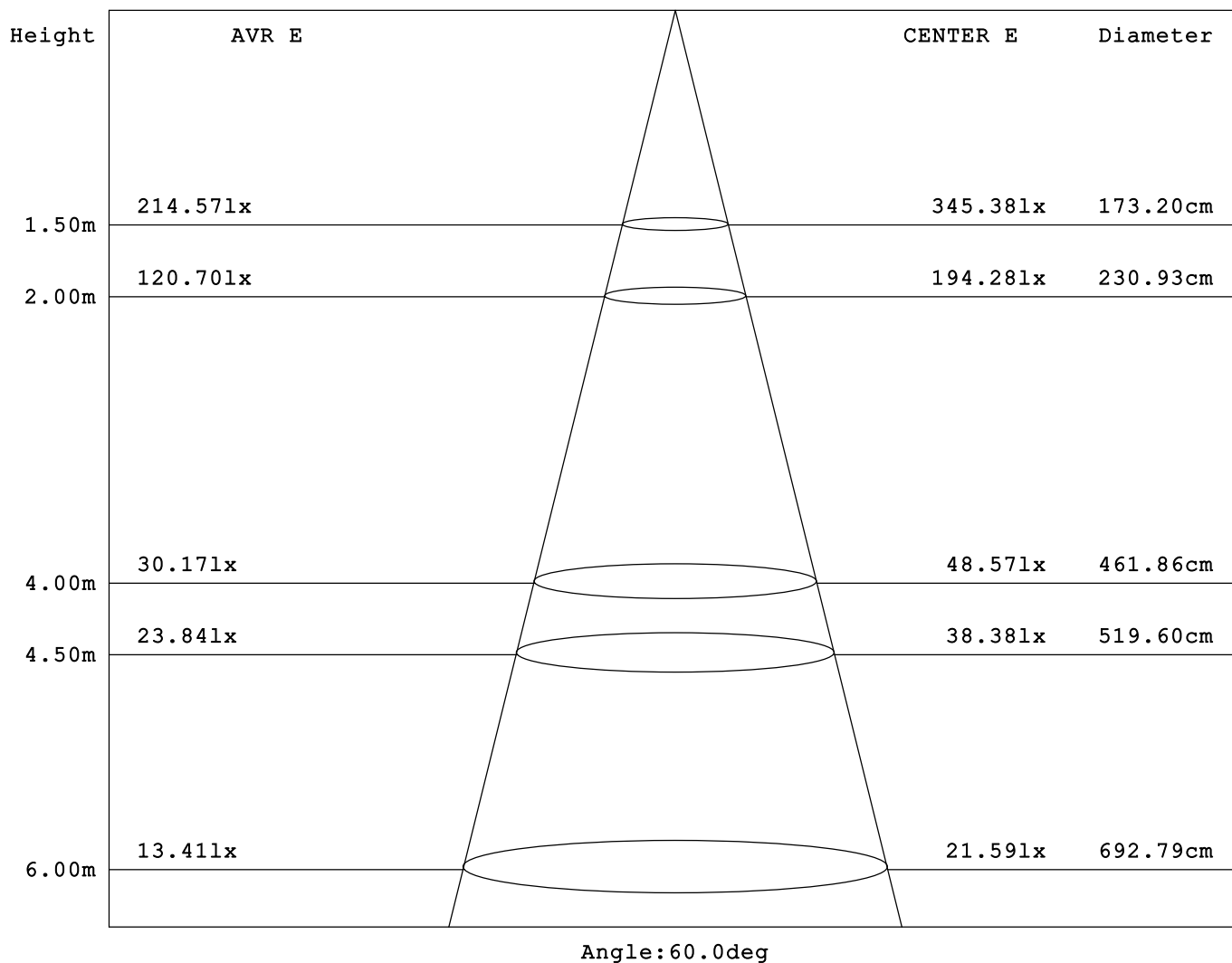
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 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: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 9.000 m
 Remarks: 3000K

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
10.0	751.6	731.6	716.2	717.7	730.9	752.3	767.6	762.0	0- 10	72.21	72.21
20.0	627.5	598.7	574.4	566.1	573.4	602.8	633.5	641.6	10- 20	191.6	263.8
30.0	417.1	390.1	362.0	355.1	362.7	383.8	412.2	421.3	20- 30	227.7	491.5
40.0	202.6	193.2	184.1	182.9	179.5	183.5	194.6	196.8	30- 40	172.7	664.2
50.0	111.2	108.2	100.4	100.8	98.17	97.44	101.3	102.7	40- 50	111.4	775.7
60.0	47.06	47.38	45.52	45.23	44.06	42.36	45.36	42.36	50- 60	63.62	839.3
70.0	14.98	13.56	12.79	13.56	12.87	11.82	13.20	11.38	60- 70	27.70	867.0
80.0	4.212	2.592	1.053	2.551	2.106	2.227	3.564	2.187	70- 80	6.421	873.4
90.0	3.321	2.268	1.296	2.106	2.916	1.782	2.511	1.741	80- 90	2.459	875.9
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:09-16-2025

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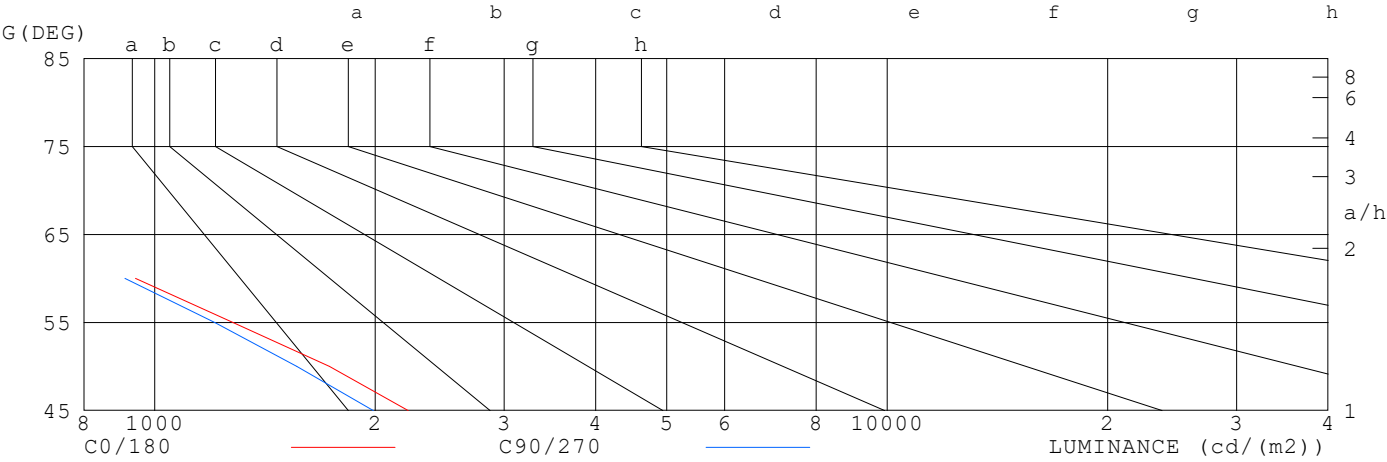
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 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	428	112
80	243	61
75	247	116
70	438	374
65	709	661
60	941	910
55	1279	1207
50	1731	1563
45	2218	1987

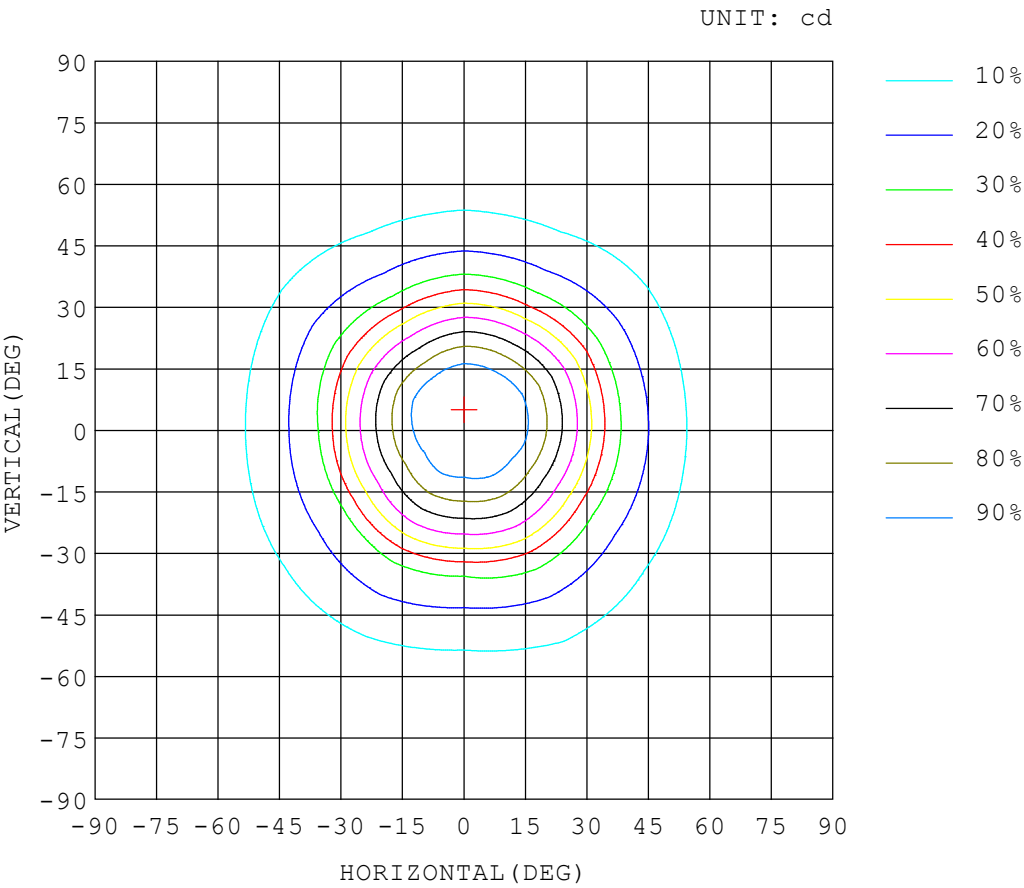
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Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:



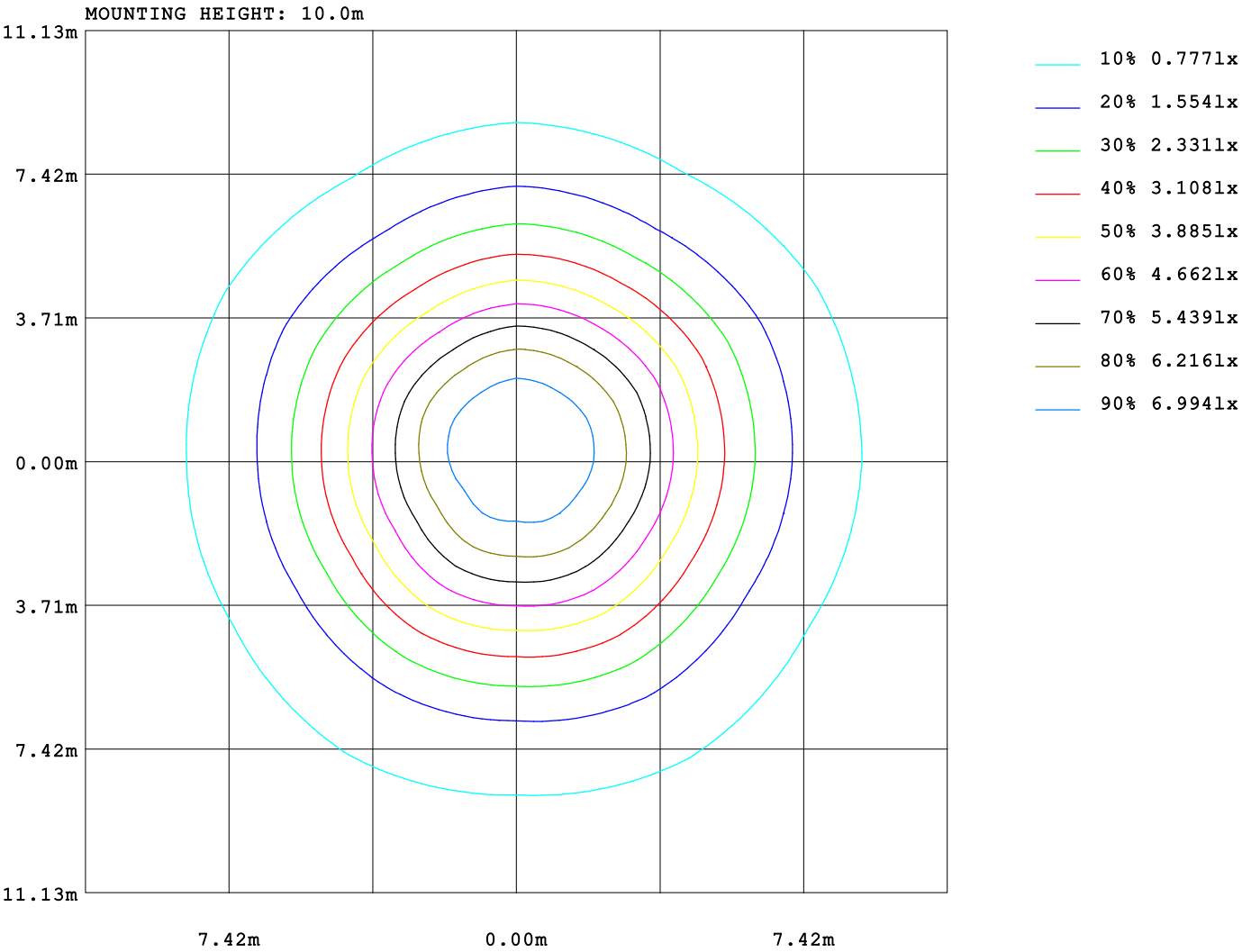
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: DIVINITY LIGHTS																				
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019																				
NAME: TRION DUO										TYPE: 3000K CRI-90					WEIGHT:					
SPECIFICATION:										DIMENSION: D-182 CUTOUT-158 H-86 MM					SERIAL No.:					

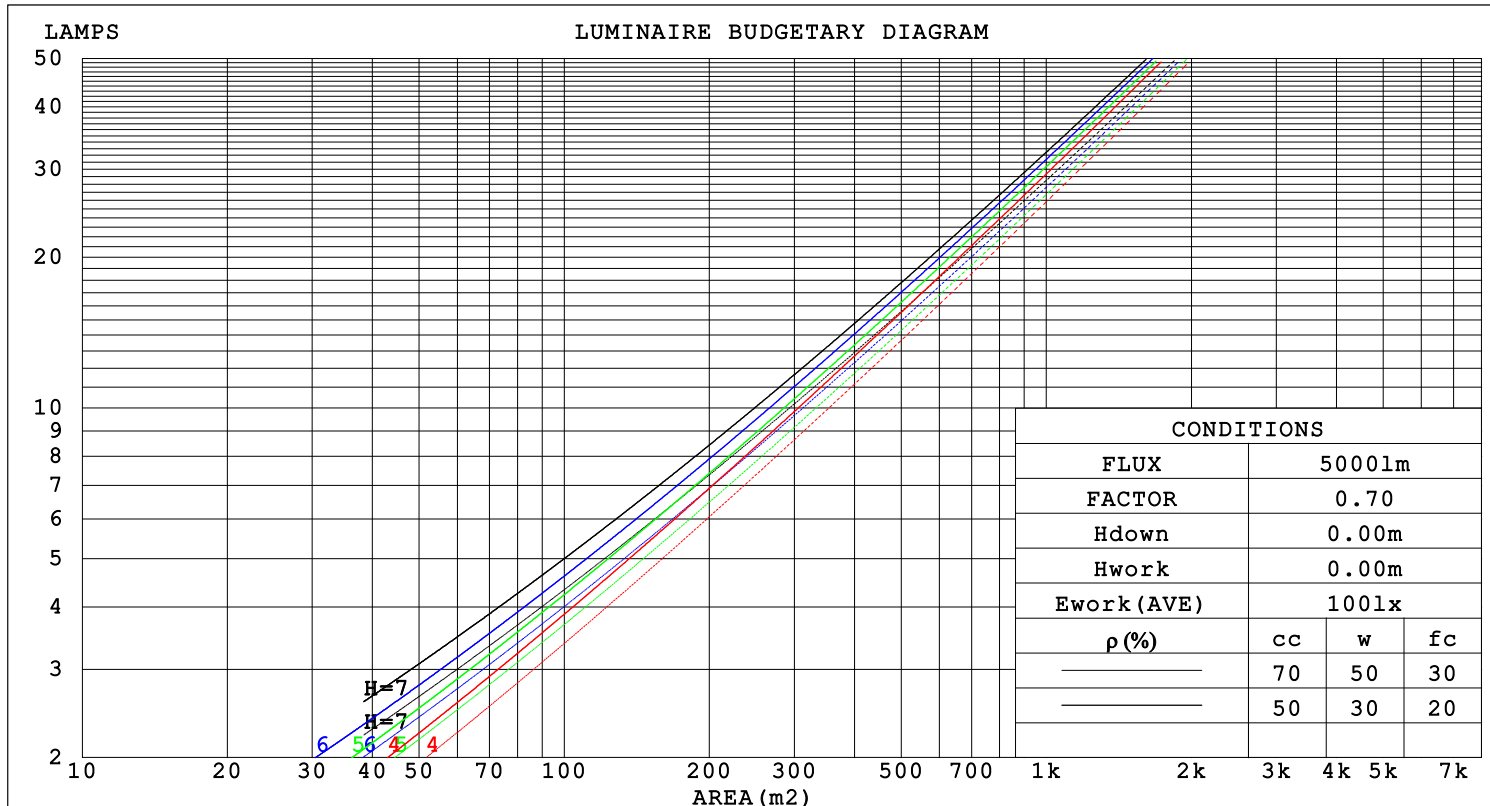
VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.01	0.02	0.04	0.04	0.04	0.03	0.03	0.05	0.08	0.08	0.05	0.03	0.03	0.04	0.04	0.04	0.02	0.01	0.68	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
30																						

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 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	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91														
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.86	.84	.82														
3.0	.91	.86	.81	.90	.85	.80	.87	.83	.79	.85	.81	.78	.82	.79	.76	.75														
4.0	.84	.78	.73	.83	.77	.72	.81	.75	.71	.79	.74	.70	.77	.73	.70	.68														
5.0	.78	.71	.66	.77	.70	.66	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62														
6.0	.72	.65	.60	.71	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.59	.57														
7.0	.67	.60	.55	.66	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.53														
8.0	.62	.56	.51	.62	.55	.51	.61	.55	.51	.60	.54	.50	.59	.54	.50	.49														
9.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45														
10.0	.55	.48	.44	.54	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42														



Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

WEC AND CCEC

Report number:

MANUFACTURER: DIVINITY LIGHTS														
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019														
NAME: TRION DUO							TYPE: 3000K CRI-90					WEIGHT:		
SPECIFICATION:							DIMENSION: D-182 CUTOUT-158 H-86 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	.209	.119	.038	.202	.115	.037	.190	.109	.035	.178	.103	.033	.167	.097	.031	
2.0	.202	.111	.034	.196	.108	.033	.185	.103	.032	.175	.098	.031	.166	.094	.030	
3.0	.192	.102	.031	.187	.100	.030	.178	.096	.029	.169	.093	.028	.161	.089	.028	
4.0	.182	.095	.028	.178	.093	.028	.170	.090	.027	.162	.087	.026	.155	.084	.026	
5.0	.173	.088	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	.149	.079	.024	
6.0	.164	.082	.023	.160	.081	.023	.154	.079	.023	.148	.077	.023	.142	.075	.022	
7.0	.155	.077	.022	.152	.076	.022	.147	.074	.021	.141	.072	.021	.136	.071	.021	
8.0	.147	.072	.020	.145	.071	.020	.140	.070	.020	.135	.068	.020	.130	.067	.020	
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.019	.125	.063	.018	
10.0	.134	.064	.018	.132	.064	.018	.127	.062	.018	.123	.061	.017	.120	.060	.017	

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	.173	.157	.142	.148	.135	.122	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013	
3.0	.150	.114	.085	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.068	.120	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.114	.076	.048	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.046	.108	.069	.040	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:9.000 m
 Remarks: 3000K

Uncorrected UGR Table

Report number:

MANUFACTURER: DIVINITY LIGHTS											
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019											
NAME: TRION DUO					TYPE: 3000K CRI-90			WEIGHT:			
SPECIFICATION:					DIMENSION: D-182 CUTOUT-158 H-86 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	11.8	12.9	12.0	13.1	13.2	11.9	13.1	12.2	13.2	13.4
	3H	11.8	12.8	12.1	13.1	13.3	12.0	13.0	12.3	13.3	13.5
	4H	11.8	12.7	12.0	13.0	13.2	11.9	12.9	12.2	13.1	13.4
	6H	11.7	12.6	12.0	12.9	13.1	11.9	12.8	12.2	13.0	13.3
	8H	11.7	12.5	12.0	12.8	13.1	11.8	12.7	12.1	12.9	13.2
	12H	11.7	12.5	12.0	12.8	13.1	11.8	12.6	12.1	12.9	13.2
4H	2H	11.8	12.8	12.1	13.0	13.2	12.0	12.9	12.3	13.2	13.4
	3H	11.9	12.7	12.2	13.0	13.3	12.1	13.0	12.4	13.2	13.5
	4H	11.8	12.6	12.2	12.9	13.2	12.1	12.8	12.4	13.1	13.4
	6H	11.8	12.4	12.1	12.8	13.1	12.0	12.6	12.4	13.0	13.3
	8H	11.8	12.4	12.2	12.7	13.1	11.9	12.6	12.3	12.9	13.3
	12H	11.8	12.3	12.2	12.7	13.1	11.9	12.5	12.3	12.8	13.2
8H	4H	11.7	12.3	12.1	12.7	13.1	11.9	12.6	12.3	12.9	13.3
	6H	11.7	12.2	12.1	12.6	13.0	11.9	12.4	12.3	12.8	13.2
	8H	11.7	12.1	12.1	12.5	13.0	11.9	12.3	12.3	12.7	13.2
	12H	11.7	12.1	12.2	12.5	13.0	11.8	12.2	12.3	12.7	13.1
12H	4H	11.7	12.2	12.1	12.6	13.0	11.9	12.5	12.3	12.8	13.2
	6H	11.6	12.1	12.1	12.5	12.9	11.8	12.3	12.3	12.7	13.1
	8H	11.6	12.0	12.1	12.4	12.9	11.8	12.2	12.3	12.7	13.1
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 2.0					+ 1.2 / - 1.7				
1.5H		+ 1.1 / - 2.0					+ 0.8 / - 1.3				
2.0H		+ 3.0 / - 3.3					+ 2.0 / - 2.2				

CIE Pub.117 Corrected 875.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.5)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

UTILIZATION FACTORS TABLE

Report number:

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Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019										
NAME: TRION DUO					TYPE: 3000K CRI-90			WEIGHT:		
SPECIFICATION:					DIMENSION: D-182 CUTOUT-158 H-86 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) $k(RI) \times RCR = 5$									
$k = 0.60$	76	68	63	76	68	63	75	67	63	58
0.80	85	77	72	84	77	72	83	76	72	67
1.00	92	84	79	91	84	79	89	84	79	74
1.25	97	90	85	96	89	85	94	88	84	79
1.50	100	94	90	99	93	89	97	92	88	83
2.00	105	99	95	103	98	94	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	109	106	104	106	103	101	93
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004					Suspended			SHRNOM = 1.25		

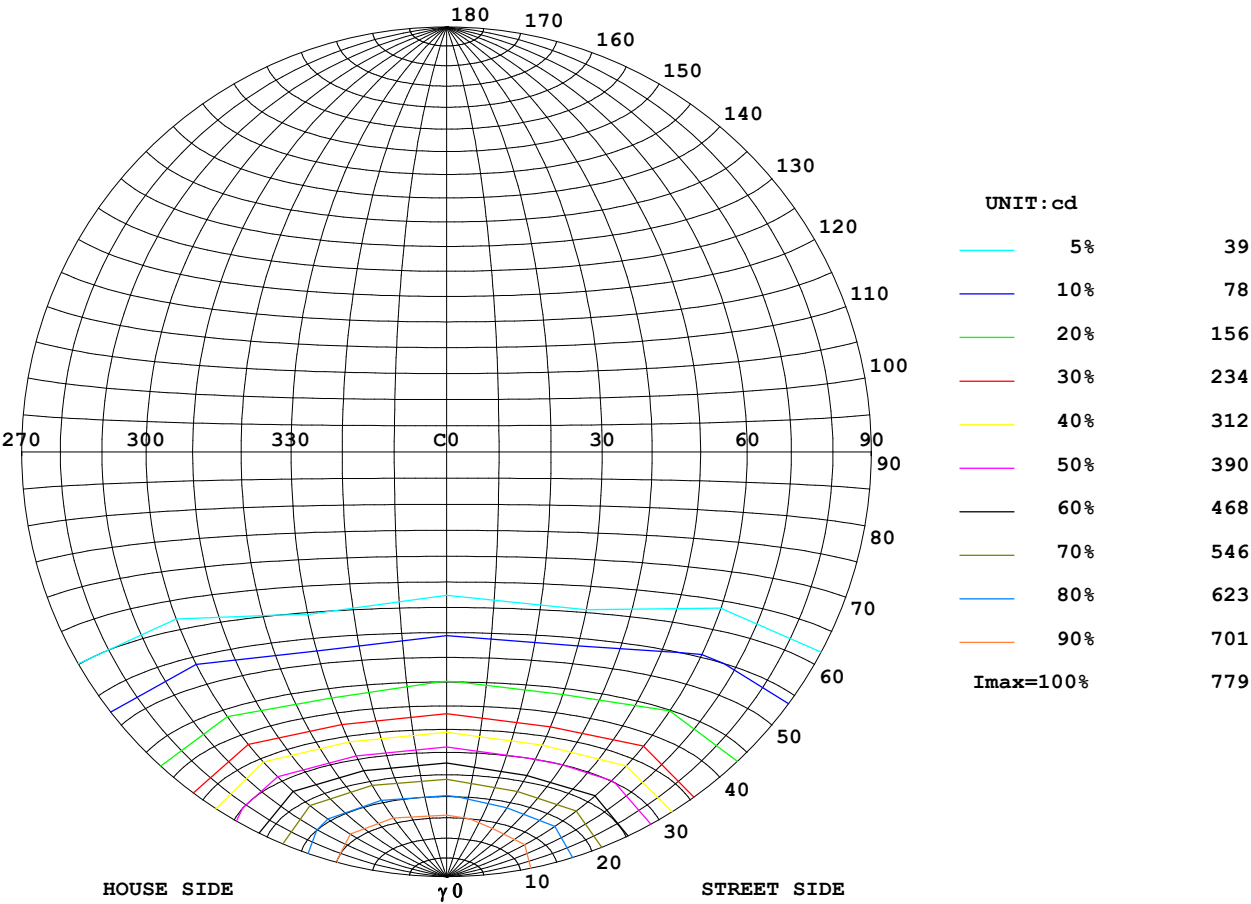
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Temperature:25.3DEG
Operators:
Test Date:09-16-2025

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Humidity:65.0%
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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: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

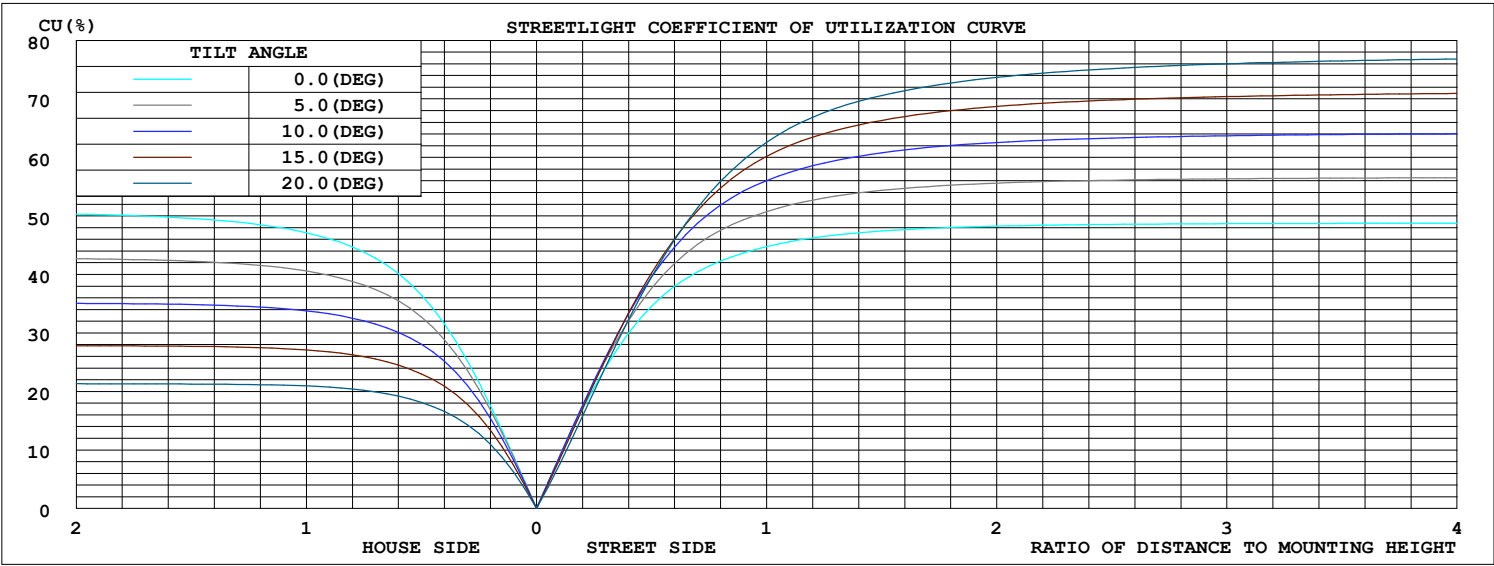
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Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

ISOLUX DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 7.77 lx



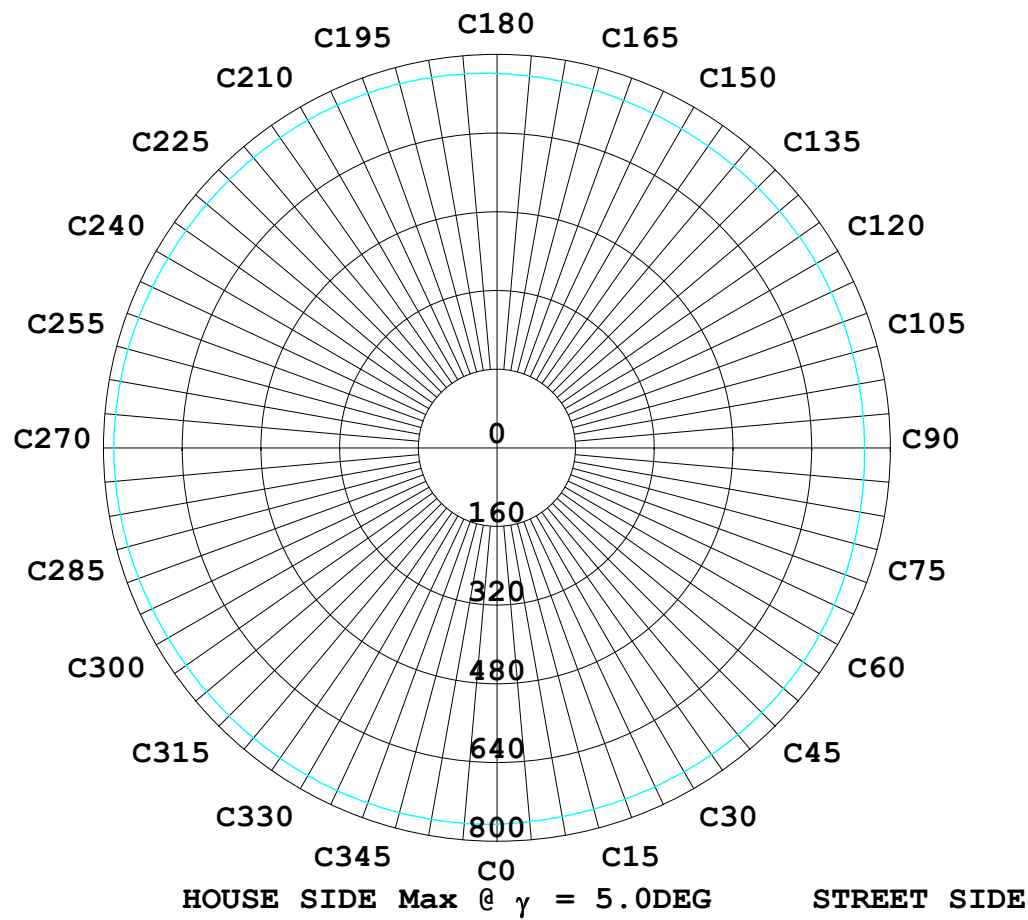
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:09-16-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:9.000 m
Remarks: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: DIVINITY LIGHTS		
Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019		
NAME: TRION DUO	TYPE: 3000K CRI-90	WEIGHT:
SPECIFICATION:	DIMENSION: D-182 CUTOUT-158 H-86 MM	SERIAL No.:

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0.0	777	776	776	777	777	776	777	776	776	777	777	776
5.0	765	760	758	747	750	749	761	770	772	779	773	770
10.0	752	734	729	716	721	715	731	750	755	768	762	762
15.0	712	689	682	665	667	650	668	694	700	723	722	727
20.0	628	600	597	574	577	555	573	601	604	634	636	648
25.0	524	497	500	475	480	455	473	496	494	524	525	544
30.0	417	389	391	362	365	345	363	386	382	412	409	434
35.0	296	265	276	241	245	225	240	272	260	295	281	314
40.0	203	188	199	184	190	176	180	190	177	195	186	208
45.0	157	145	155	141	149	133	135	145	130	142	136	156
50.0	111	103	113	100	107	95.0	98.1	103	91.4	101	94.3	111
55.0	73.3	66.9	80.3	69.2	72.9	64.8	67.4	69.7	60.9	69.4	61.1	72.9
60.0	47.0	40.8	53.9	45.5	48.1	42.3	44.0	45.5	39.2	45.3	36.9	47.7
65.0	29.9	22.9	33.6	27.9	30.4	25.5	27.7	28.6	23.0	27.7	20.1	30.2
70.0	14.9	10.0	17.0	12.7	16.0	11.0	12.8	14.7	8.91	13.2	7.93	14.8
75.0	6.39	2.67	6.96	2.99	6.64	2.75	4.05	6.07	2.10	5.67	1.86	5.91
80.0	4.21	1.13	4.05	1.05	4.05	1.05	2.10	3.72	0.73	3.56	0.65	3.72
85.0	3.72	1.13	3.48	0.97	3.40	1.05	2.02	3.07	0.65	2.99	0.57	3.07
90.0	3.32	1.53	2.99	1.29	2.83	1.37	2.91	2.59	0.97	2.51	0.89	2.59

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