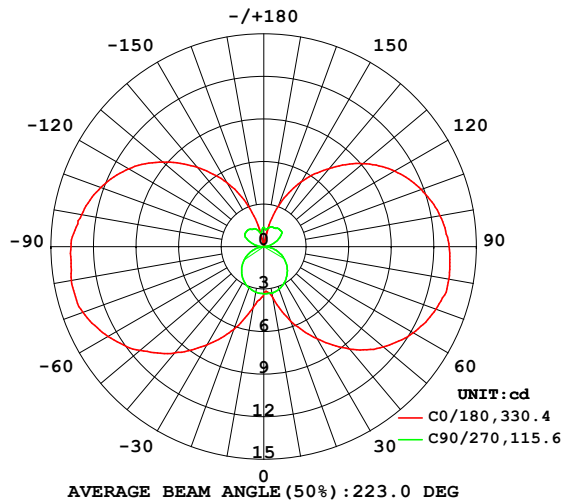


LUMINAIRE PHOTOMETRIC TEST REPORT

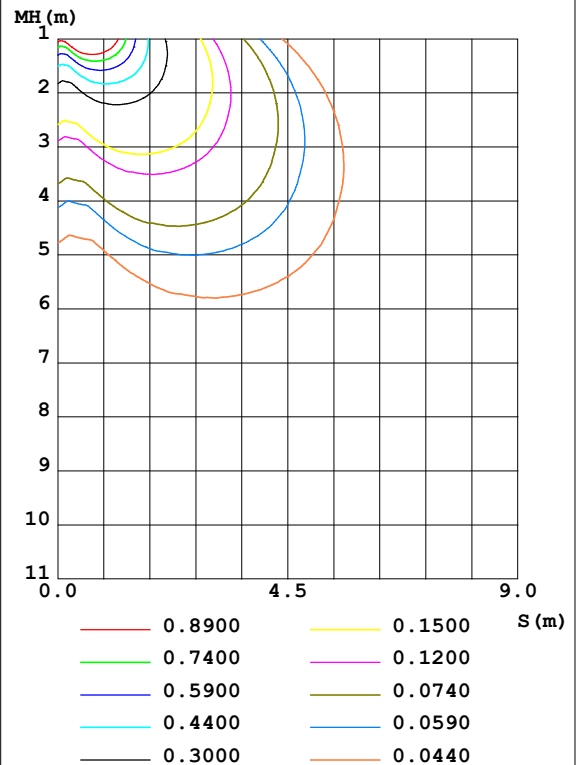
NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 51.81 lm/W
MODEL	600-045	Imax(cd)	13.79	S/MH(C0/180)	3.28	
NOMINAL POWER(W)	0.5	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	15	TOTAL FLUX(lm)	25.907	η UP,DN(C0-180)	22.6,27.7	
NOMINAL FLUX(lm)	25.9071	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	20.7,29.0	
LAMPS INSIDE	1	η up(%)	43.3	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	3.3	η down(%)	56.7	CIBSE SHR MAX	0.70	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: HGL
Test Date: 2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

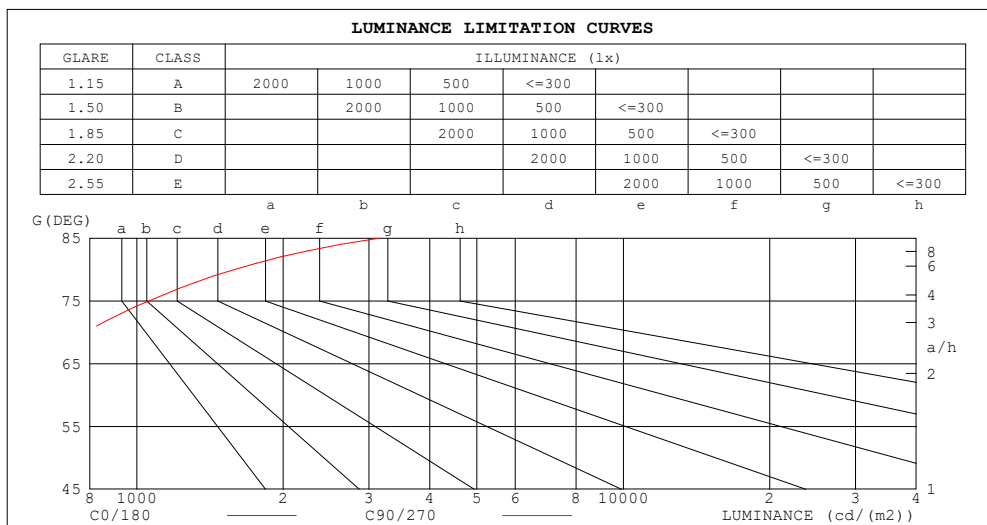
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3.648	3.320	3.324	3.177	4.371	3.273	3.258	3.352	0- 10	0.3180	0.3180	1.23,1.23
20	5.599	3.215	3.192	2.958	6.221	3.047	3.092	3.359	10- 20	0.9504	1.268	4.9,4.9
30	7.492	2.961	2.928	2.658	7.983	2.751	2.818	3.148	20- 30	1.529	2.798	10.8,10.8
40	9.427	2.609	2.564	2.279	9.801	2.370	2.436	2.835	30- 40	1.979	4.776	18.4,18.4
50	11.01	2.205	2.140	1.794	11.38	1.901	1.982	2.456	40- 50	2.254	7.030	27.1,27.1
60	12.17	1.537	1.639	1.300	12.68	1.393	1.463	1.972	50- 60	2.307	9.337	36,36
70	12.92	1.029	1.101	0.7298	13.56	0.8372	0.8818	1.482	60- 70	2.137	11.47	44.3,44.3
80	13.25	0.5923	0.5199	0.1757	13.78	0.2786	0.3110	0.9507	70- 80	1.787	13.26	51.2,51.2
90	13.08	0.5737	0.0946	0.0190	13.60	0.0564	0.1182	0.6131	80- 90	1.422	14.68	56.7,56.7
100	12.62	0.9925	0.2539	0.3376	13.04	0.2193	0.5204	0.6405	90-100	1.402	16.09	62.1,62.1
110	11.82	1.524	0.7731	0.8705	12.23	0.6710	1.068	1.125	100-110	1.723	17.81	68.7,68.7
120	10.67	2.013	1.307	1.197	11.01	0.9684	1.530	1.632	110-120	1.997	19.80	76.4,76.4
130	9.122	2.464	1.653	0.9588	9.272	0.8513	1.633	2.084	120-130	1.964	21.77	84,84
140	7.207	2.845	1.653	0.7359	7.318	0.4049	1.610	2.293	130-140	1.632	23.40	90.3,90.3
150	5.276	3.160	1.535	0.5556	5.213	0.1036	1.452	2.237	140-150	1.197	24.60	94.9,94.9
160	3.054	3.235	1.497	0.3038	2.816	0.0470	1.227	2.108	150-160	0.7759	25.37	97.9,97.9
170	0.4658	3.027	1.280	0.5040	0.1150	0.8785	1.006	1.828	160-170	0.3981	25.77	99.5,99.5
180	0.0193	1.589	1.360	1.586	0.0386	2.351	1.369	1.358	170-180	0.1351	25.91	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:HGL
Test Date:2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3139	258
80	1585	254
75	1059	264
70	785	274
65	620	278
60	505	278
55	420	281
50	356	283
45	302	284

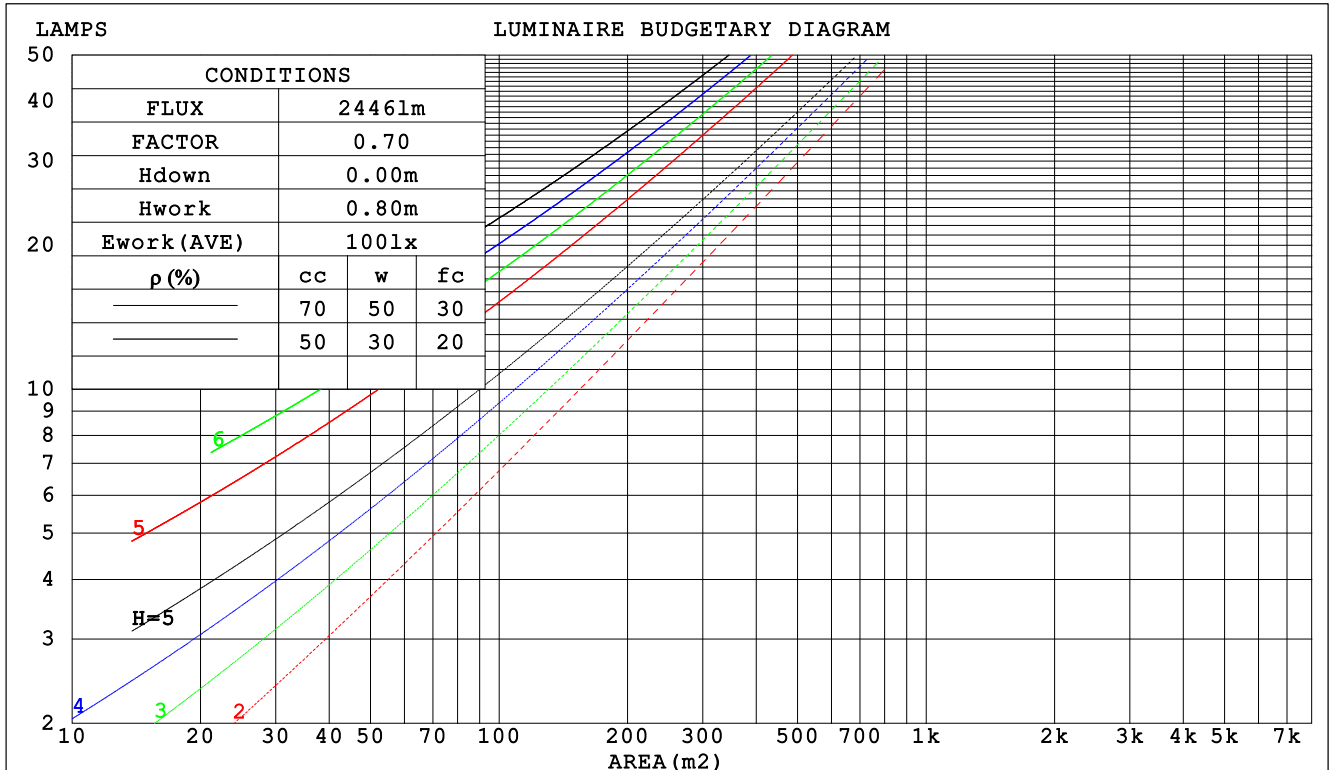
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: HGL
Test Date: 2023-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.09	1.09	1.09	1.01	1.01	1.01	.87	.87	.87	.74	.74	.74	.62	.62	.62	.57
1.0	.91	.86	.82	.85	.80	.77	.73	.69	.66	.61	.59	.57	.51	.49	.47	.42
2.0	.78	.71	.65	.73	.66	.61	.62	.57	.53	.52	.49	.45	.43	.41	.38	.33
3.0	.68	.59	.53	.63	.56	.49	.54	.48	.43	.45	.41	.37	.38	.34	.31	.27
4.0	.60	.51	.44	.55	.47	.41	.47	.41	.36	.40	.35	.31	.33	.29	.26	.23
5.0	.53	.44	.37	.49	.41	.35	.42	.36	.31	.36	.30	.26	.29	.25	.22	.19
6.0	.47	.38	.32	.44	.36	.30	.38	.31	.26	.32	.27	.23	.26	.22	.19	.16
7.0	.42	.34	.28	.39	.32	.26	.34	.28	.23	.29	.24	.20	.24	.20	.17	.14
8.0	.38	.30	.24	.36	.28	.23	.31	.25	.20	.26	.21	.18	.22	.18	.15	.13
9.0	.35	.27	.21	.33	.25	.20	.28	.22	.18	.24	.19	.16	.20	.16	.13	.11
10.0	.32	.24	.19	.30	.23	.18	.26	.20	.16	.22	.17	.14	.19	.15	.12	.10



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:HGL
Test Date:2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

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	.353	.201	.064	.332	.190	.060	.294	.169	.054	.260	.150	.048	.227	.132	.042		
2.0	.309	.169	.052	.290	.160	.049	.256	.142	.044	.224	.125	.039	.194	.110	.035		
3.0	.276	.147	.044	.259	.139	.042	.228	.123	.038	.199	.109	.033	.171	.095	.029		
4.0	.250	.130	.038	.235	.123	.036	.206	.109	.033	.179	.096	.029	.154	.084	.025		
5.0	.228	.116	.034	.214	.110	.032	.188	.098	.029	.163	.086	.026	.140	.075	.022		
6.0	.210	.105	.030	.197	.099	.029	.172	.088	.026	.149	.078	.023	.128	.067	.020		
7.0	.194	.096	.027	.182	.091	.026	.159	.081	.023	.138	.071	.021	.118	.061	.018		
8.0	.180	.088	.025	.169	.083	.024	.148	.074	.021	.128	.065	.019	.110	.056	.016		
9.0	.168	.081	.023	.158	.077	.022	.138	.068	.019	.120	.060	.017	.102	.052	.015		
10.0	.158	.076	.021	.148	.072	.020	.130	.064	.018	.113	.056	.016	.096	.048	.014		

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	.521	.521	.521	.445	.445	.445	.304	.304	.304	.174	.174	.174	.056	.056	.056		
1.0	.516	.489	.464	.442	.419	.399	.302	.288	.276	.174	.167	.161	.056	.054	.052		
2.0	.510	.467	.431	.436	.402	.373	.299	.278	.260	.172	.162	.152	.055	.052	.050		
3.0	.503	.451	.410	.431	.389	.356	.296	.270	.250	.171	.158	.147	.055	.051	.048		
4.0	.495	.439	.397	.425	.380	.344	.292	.265	.243	.169	.155	.144	.054	.050	.047		
5.0	.488	.430	.387	.419	.372	.337	.289	.260	.238	.167	.153	.141	.054	.050	.046		
6.0	.482	.423	.380	.414	.366	.331	.286	.256	.234	.166	.151	.139	.053	.049	.046		
7.0	.475	.416	.375	.409	.361	.327	.282	.253	.232	.164	.149	.138	.053	.049	.046		
8.0	.469	.411	.371	.404	.357	.324	.279	.250	.230	.162	.148	.137	.053	.048	.045		
9.0	.463	.407	.369	.399	.353	.321	.276	.248	.228	.161	.146	.136	.052	.048	.045		
10.0	.458	.403	.366	.394	.350	.320	.274	.246	.227	.160	.145	.135	.052	.048	.045		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: HGL
Test Date: 2023-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 600-045					TYPE: 3W					WEIGHT:				
SPEC.: 5000K					DIM.:					SERIAL No.:				
MFR.: Tronix Lighting					SUR.: 0.014518					Shielding Angle:				
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					20.2	21.3	21.0	22.1	23.1	18.0	19.1	18.8	19.9	20.9
3H					23.7	24.7	24.6	25.6	26.6	19.6	20.6	20.4	21.4	22.5
4H					25.8	26.7	26.6	27.6	28.6	20.3	21.2	21.1	22.0	23.1
6H					28.1	29.0	29.0	29.8	30.9	20.8	21.6	21.6	22.5	23.6
8H					29.4	30.2	30.2	31.1	32.2	21.0	21.8	21.8	22.7	23.8
12H					30.8	31.6	31.7	32.5	33.6	21.1	21.9	22.0	22.8	23.9
4H 2H					20.4	21.3	21.2	22.1	23.2	18.6	19.5	19.4	20.3	21.4
3H					24.0	24.8	24.9	25.7	26.8	20.3	21.1	21.1	21.9	23.1
4H					26.2	26.9	27.1	27.8	29.0	21.1	21.8	21.9	22.7	23.8
6H					28.8	29.4	29.7	30.3	31.5	21.7	22.4	22.6	23.3	24.4
8H					30.2	30.8	31.2	31.8	33.0	22.0	22.6	22.9	23.5	24.7
12H					31.9	32.5	32.9	33.4	34.6	22.2	22.8	23.1	23.7	24.9
8H 4H					26.2	26.8	27.1	27.7	28.9	21.6	22.2	22.5	23.1	24.3
6H					28.9	29.4	29.9	30.4	31.6	22.4	22.9	23.3	23.8	25.0
8H					30.6	31.0	31.6	32.0	33.2	22.7	23.2	23.7	24.2	25.4
12H					32.6	33.0	33.5	33.9	35.2	23.1	23.5	24.1	24.5	25.7
12H 4H					26.1	26.6	27.0	27.6	28.8	21.9	22.5	22.9	23.4	24.6
6H					28.9	29.3	29.8	30.3	31.5	22.8	23.2	23.7	24.2	25.4
8H					30.6	31.0	31.6	32.0	33.2	23.2	23.6	24.2	24.6	25.8
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H					+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H					+ 0.4 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 25.91 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -12.7)
Area: 0.014518 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:HGL
Test Date:2023-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

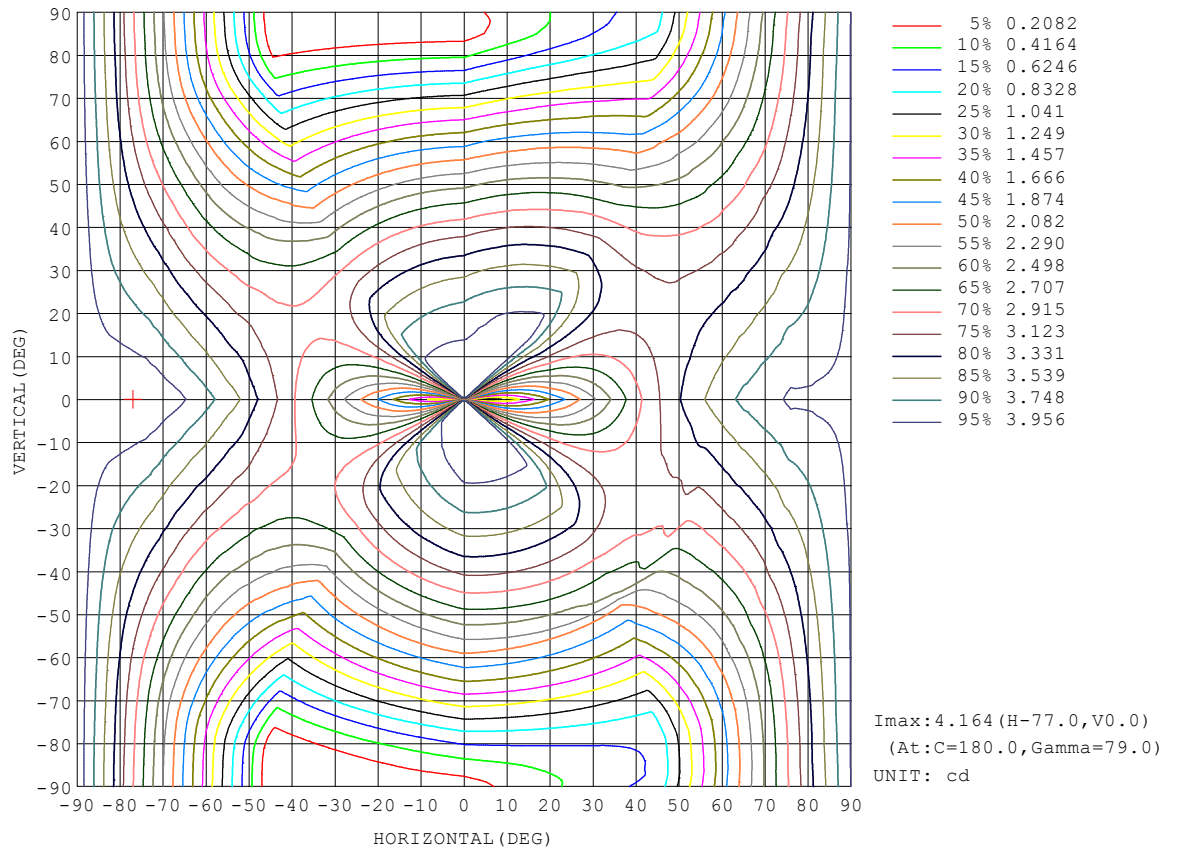
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

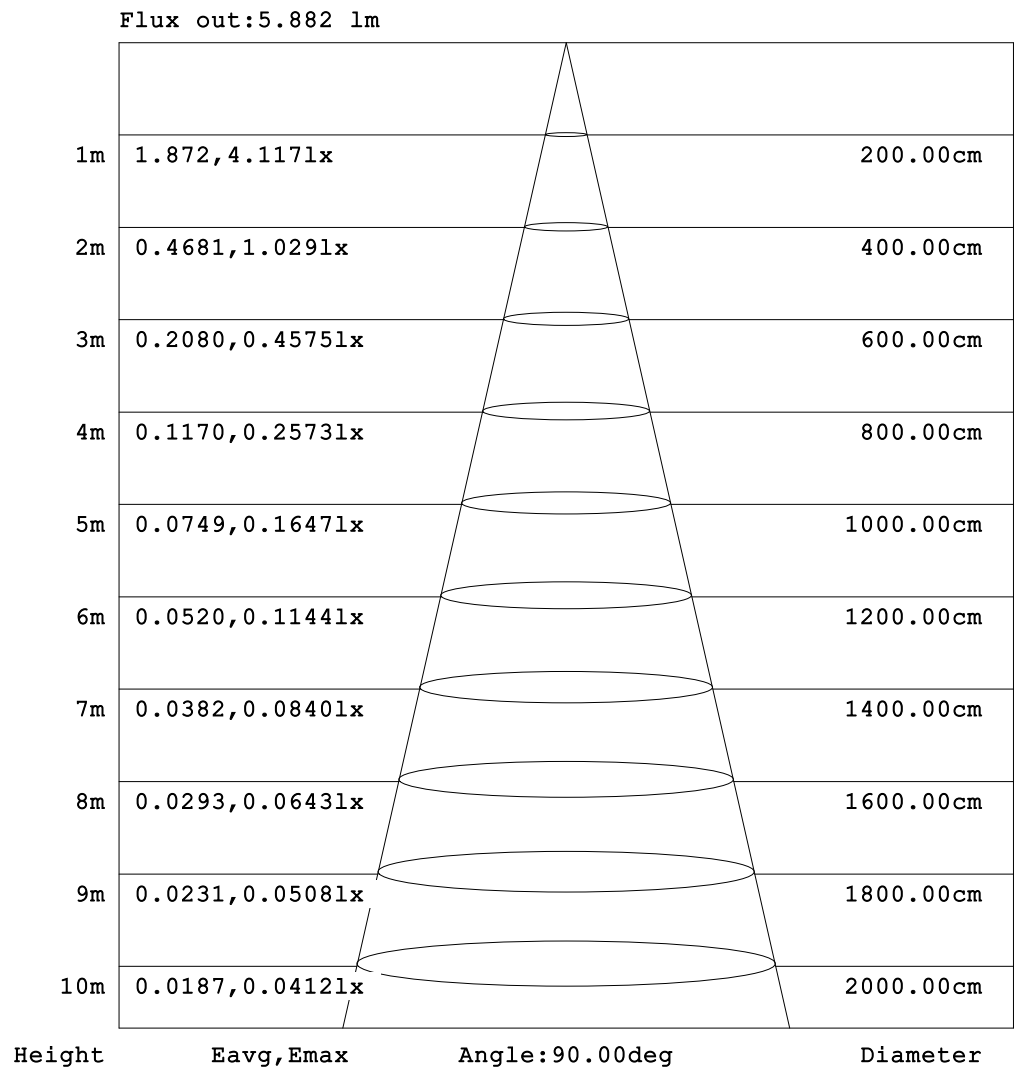


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: HGL
Test Date: 2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

AAI Figure

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:



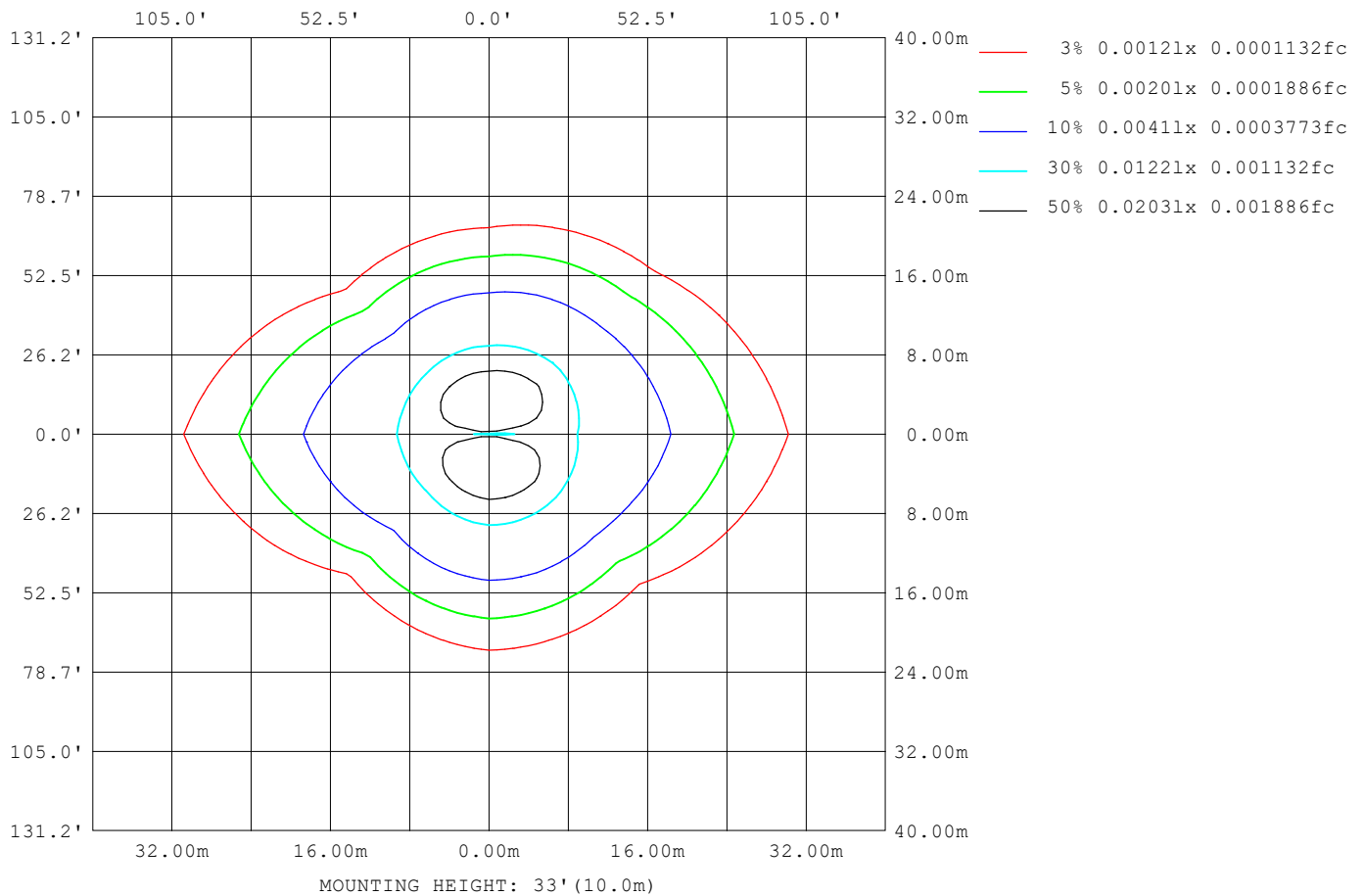
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: HGL
 Test Date: 2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: HGL
 Test Date: 2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

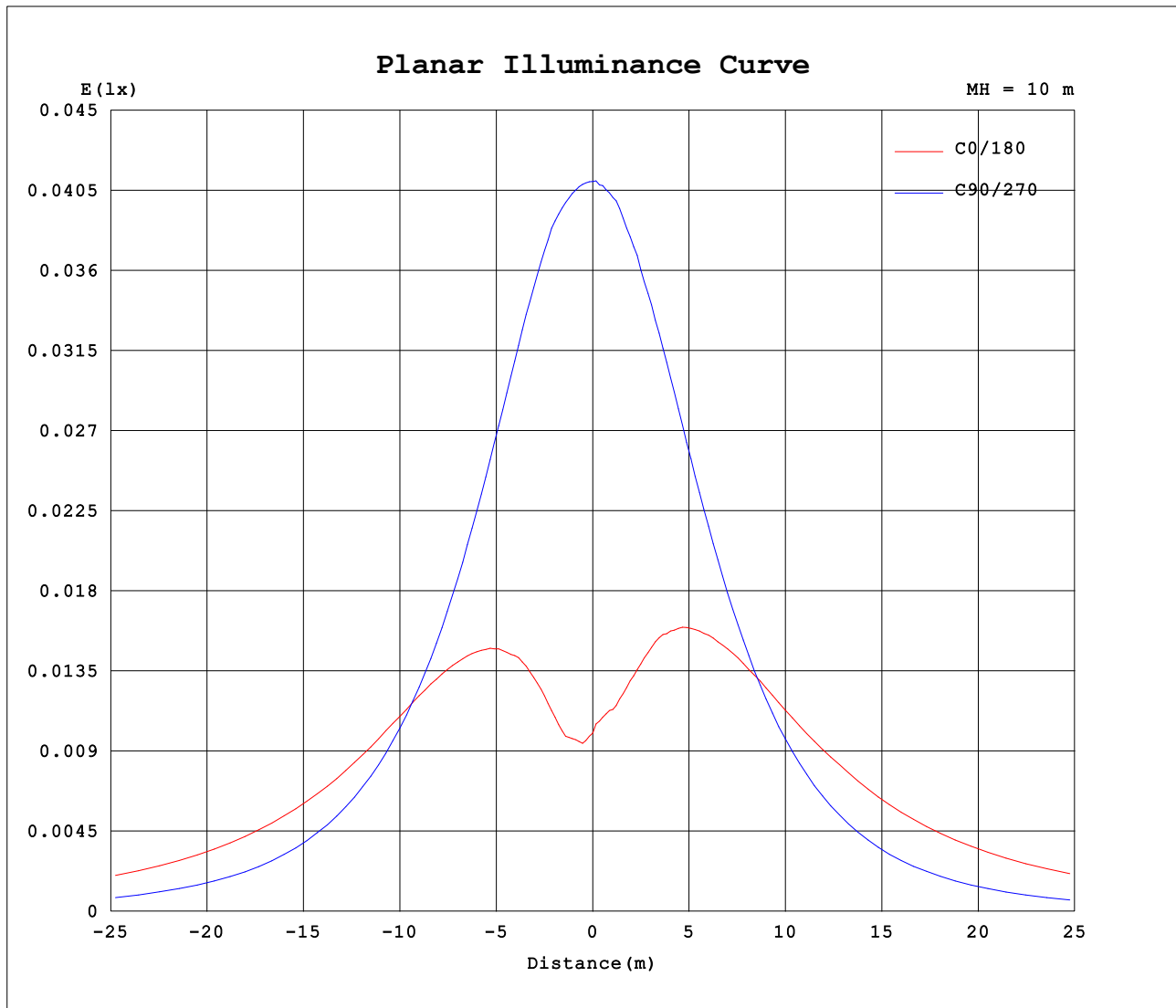
AvgL	cd/m2
L_0~180 (65) av	2100
L_0~180 (75) av	3585
L_0~180 (85) av	10596
L_90~270 (65) av	209
L_90~270 (75) av	185
L_90~270 (85) av	146
L_45 (65) av	210
L_45 (75) av	199
L_45 (85) av	275

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: HGL
Test Date: 2023-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: HGL
 Test Date: 2023-07-30

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 600-045	TYPE: 3W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.: Tronix Lighting	SUR.: 0.014518	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32										
5	3.23	3.32	3.32	3.28	3.79	3.32	3.31	3.34										
10	3.65	3.32	3.32	3.18	4.37	3.27	3.26	3.35										
15	4.59	3.29	3.28	3.08	5.24	3.16	3.18	3.37										
20	5.60	3.22	3.19	2.96	6.22	3.05	3.09	3.36										
25	6.53	3.10	3.07	2.82	7.11	2.91	2.97	3.27										
30	7.49	2.96	2.93	2.66	7.98	2.75	2.82	3.15										
35	8.46	2.80	2.76	2.47	8.91	2.57	2.64	3.00										
40	9.43	2.61	2.56	2.28	9.80	2.37	2.44	2.84										
45	10.28	2.41	2.36	2.04	10.61	2.15	2.22	2.64										
50	11.01	2.20	2.14	1.79	11.38	1.90	1.98	2.46										
55	11.61	2.01	1.90	1.55	12.08	1.64	1.72	2.21										
60	12.17	1.54	1.64	1.30	12.68	1.39	1.46	1.97										
65	12.61	1.30	1.38	1.02	13.16	1.11	1.18	1.72										
70	12.92	1.03	1.10	0.73	13.56	0.84	0.88	1.48										
75	13.19	0.78	0.80	0.44	13.75	0.56	0.59	1.21										
80	13.25	0.59	0.52	0.18	13.78	0.28	0.31	0.95										
85	13.18	0.53	0.26	0.02	13.64	0.10	0.10	0.74										
90	13.08	0.57	0.09	0.02	13.60	0.06	0.12	0.61										
95	12.87	0.75	0.07	0.08	13.37	0.02	0.27	0.57										
100	12.62	0.99	0.25	0.34	13.04	0.22	0.52	0.64										
105	12.27	1.26	0.51	0.60	12.69	0.45	0.79	0.86										
110	11.82	1.52	0.77	0.87	12.23	0.67	1.07	1.12										
115	11.28	1.76	1.05	1.12	11.67	0.87	1.34	1.39										
120	10.67	2.01	1.31	1.20	11.01	0.97	1.53	1.63										
125	9.93	2.25	1.54	1.10	10.20	0.96	1.62	1.88										
130	9.12	2.46	1.65	0.96	9.27	0.85	1.63	2.08										
135	8.20	2.67	1.66	0.81	8.30	0.63	1.63	2.24										
140	7.21	2.84	1.65	0.74	7.32	0.40	1.61	2.29										
145	6.28	3.01	1.61	0.67	6.24	0.21	1.51	2.27										
150	5.28	3.16	1.53	0.56	5.21	0.10	1.45	2.24										
155	4.20	3.22	1.53	0.44	4.07	0.08	1.39	2.18										
160	3.05	3.23	1.50	0.30	2.82	0.05	1.23	2.11										
165	1.88	3.21	1.39	0.28	1.54	0.23	1.05	1.97										
170	0.47	3.03	1.28	0.50	0.12	0.88	1.01	1.83										
175	0.04	2.66	1.22	1.21	0.04	1.51	1.28	1.59										
180	0.02	1.59	1.36	1.59	0.04	2.35	1.37	1.36										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:HGL
Test Date:2023-07-30

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks: