

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: BALLABS TEST NO. 12383.0

Luminaire Tested: **7A/2T5HO-648-STG-1EB-CRYSTAL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12383.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 7A/2T5HO-648-STG-1EB-CRYSTAL  
Description: 2/54W T5HO OFFSET LAMPS 4'RECESSED MNT LUMINAIRE  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D

**Summary**

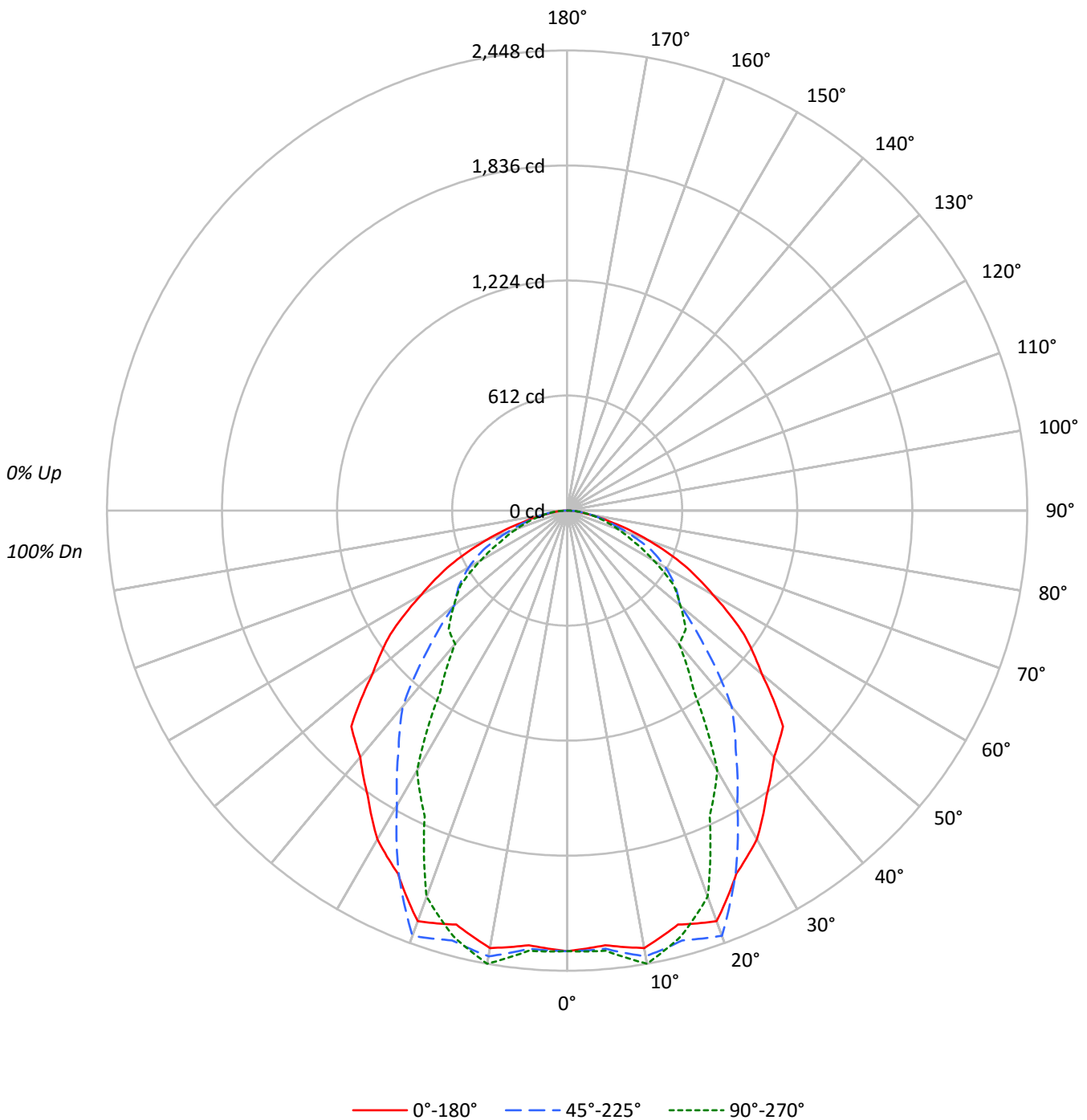
Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 5262.3 lumens  
Efficiency: 52.6%  
Efficacy: 55.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.05 / 1.19  
Luminous Opening: Rectangular (W 0.43' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 95  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	63	63	63	63	61	61	61	61	58	58	58	56	56	56	54	54	54	53
1	58	56	54	52	56	54	53	51	52	51	49	50	49	48	48	47	46	45
2	53	49	46	43	52	48	45	43	46	44	42	45	43	41	43	41	40	39
3	49	44	40	37	48	43	39	36	41	38	36	40	37	35	39	36	34	33
4	45	39	35	32	44	38	34	31	37	34	31	36	33	31	35	32	30	29
5	42	35	31	28	41	35	31	28	34	30	27	33	29	27	32	29	27	26
6	39	32	28	24	38	32	27	24	31	27	24	30	26	24	29	26	24	23
7	36	29	25	22	35	29	25	22	28	24	22	27	24	22	27	24	21	20
8	34	27	23	20	33	27	22	20	26	22	20	25	22	19	25	22	19	18
9	32	25	21	18	31	25	21	18	24	20	18	23	20	18	23	20	18	17
10	30	23	19	16	29	23	19	16	22	19	16	22	19	16	21	18	16	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15066	15066	15066
5°	14975	15098	15169
10°	15422	15716	15977
15°	15171	15750	15597
20°	15903	16464	14952
25°	15113	15049	12723
30°	14984	13433	11852
35°	14516	12272	9243
40°	14364	11419	7778
45°	14762	9526	8108
50°	13509	7819	7859
55°	12875	7889	7743
60°	11518	7764	6839
65°	10418	7467	5931
70°	8569	6333	5356
75°	6283	5364	4917
80°	4220	4849	4516
85°	3835	4351	4204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	225.8	4.3	2.3
10°-20°	666.3	12.7	6.7
20°-30°	948.9	18.0	9.5
30°-40°	993.4	18.9	9.9
40°-50°	899.3	17.1	9.0
50°-60°	730.0	13.9	7.3
60°-70°	484.4	9.2	4.8
70°-80°	246.9	4.7	2.5
80°-90°	67.4	1.3	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1841.0	35.0	18.4
0°-40°	2834.5	53.9	28.3
0°-60°	4463.7	84.8	44.6
0°-90°	5262.3	100.0	52.6
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	5262.3	100.0	52.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2321	2329	2340	2350	2351	223
15°	2280	2312	2367	2360	2344	655
25°	2131	2205	2122	1853	1794	993
35°	1850	1917	1564	1344	1178	1164
45°	1624	1526	1048	889	892	1219
55°	1149	988	704	706	691	1016
65°	685	485	491	416	390	673
75°	253	274	216	203	198	284
85°	52	62	59	58	57	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2344	2344	2344	2344	2344
5°	2321	2329	2340	2350	2351
10°	2363	2385	2408	2436	2448
15°	2280	2312	2367	2360	2344
20°	2325	2379	2407	2281	2186
25°	2131	2205	2122	1853	1794
30°	2019	2107	1810	1651	1597
35°	1850	1917	1564	1344	1178
40°	1712	1727	1361	966	927
45°	1624	1526	1048	889	892
50°	1351	1194	782	786	786
55°	1149	988	704	706	691
60°	896	715	604	557	532
65°	685	485	491	416	390
70°	456	383	337	293	285
75°	253	274	216	203	198
80°	114	149	131	125	122
85°	52	62	59	58	57
90°	0	0	0	0	0

(END OF REPORT)