

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. 11777.0

Luminaire Tested: **S244R-2T5HO**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 11777.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S244R-2T5HO  
Description: 2/54W T5HO 2x4'RECESSED GRID MNT LUMINAIRE w/WHITE REFL  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=113 REFL=94%

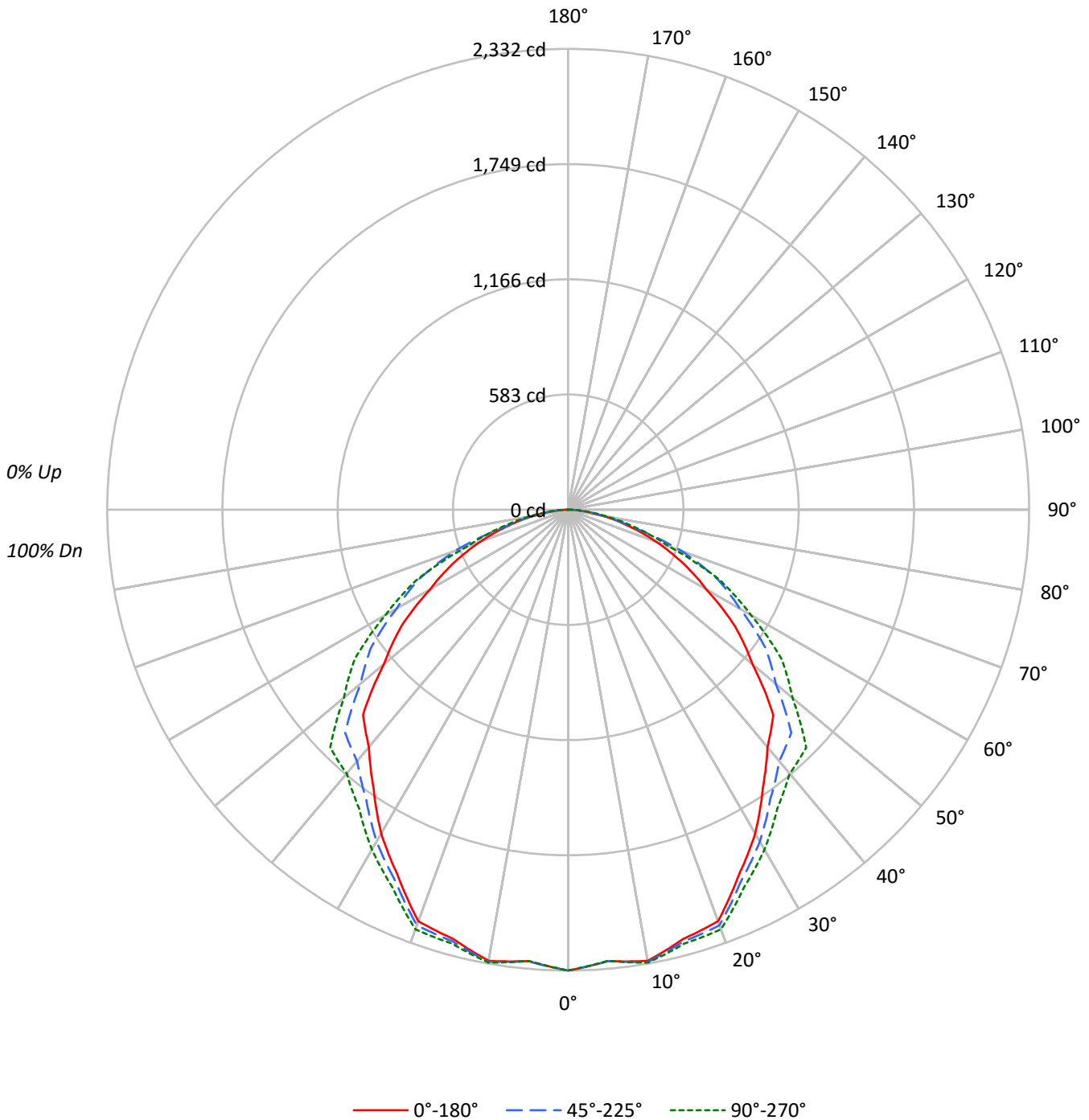
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 6437.0 lumens  
Efficiency: 64.4%  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 113  
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	77	77	77	77	75	75	75	75	72	72	72		68	68	68		66	66	66	64
1	70	67	65	62	68	66	63	61	63	61	59		61	59	57		58	57	56	54
2	64	59	54	51	62	58	54	50	55	52	49		53	50	48		51	49	47	46
3	58	52	47	42	57	51	46	42	49	45	41		47	43	41		45	42	40	38
4	53	46	40	36	52	45	40	36	43	39	35		42	38	35		40	37	34	33
5	49	41	35	31	48	40	35	31	39	34	30		38	33	30		36	33	30	28
6	45	37	31	27	44	36	31	27	35	30	27		34	30	26		33	29	26	25
7	42	33	28	24	41	33	28	24	32	27	24		31	27	23		30	26	23	22
8	39	31	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	20
9	37	28	23	19	36	28	23	19	27	22	19		26	22	19		26	22	19	18
10	34	26	21	17	34	26	21	17	25	20	17		24	20	17		24	20	17	16

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

	0°	45°	90°
0°	3343	3343	3343
5°	3300	3300	3298
10°	3374	3381	3387
15°	3338	3355	3373
20°	3380	3414	3448
25°	3228	3276	3333
30°	3132	3210	3287
35°	3005	3122	3229
40°	2934	3108	3262
45°	2974	3236	3452
50°	2716	3057	3303
55°	2579	3044	3296
60°	2314	2878	3062
65°	2174	2832	2887
70°	1978	2544	2267
75°	1722	1811	1983
80°	1428	1478	1651
85°	1086	1184	1250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	220.4	3.4	2.2
10°-20°	642.6	10.0	6.4
20°-30°	959.7	14.9	9.6
30°-40°	1122.0	17.4	11.2
40°-50°	1197.7	18.6	12.0
50°-60°	1057.3	16.4	10.6
60°-70°	768.7	11.9	7.7
70°-80°	378.3	5.9	3.8
80°-90°	90.4	1.4	0.9
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°	1822.7	28.3	18.2
0°-40°	2944.7	45.7	29.4
0°-60°	5199.6	80.8	52.0
0°-90°	6437.0	100.0	64.4
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°	6437.0	100.0	64.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2293	2292	2293	2293	2292	220
15°	2249	2253	2261	2270	2273	639
25°	2041	2050	2071	2096	2107	944
35°	1717	1736	1784	1827	1845	1080
45°	1467	1507	1596	1671	1703	1104
55°	1032	1099	1218	1296	1319	914
65°	641	721	835	861	851	634
75°	311	373	327	348	358	334
85°	66	65	72	76	76	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2332	2332	2332	2332	2332
5°	2293	2292	2293	2293	2292
10°	2318	2318	2323	2325	2327
15°	2249	2253	2261	2270	2273
20°	2216	2221	2238	2253	2260
25°	2041	2050	2071	2096	2107
30°	1892	1904	1939	1972	1986
35°	1717	1736	1784	1827	1845
40°	1568	1599	1661	1721	1743
45°	1467	1507	1596	1671	1703
50°	1218	1271	1371	1450	1481
55°	1032	1099	1218	1296	1319
60°	807	883	1004	1060	1068
65°	641	721	835	861	851
70°	472	548	607	552	541
75°	311	373	327	348	358
80°	173	201	179	194	200
85°	66	65	72	76	76
90°	0	0	0	0	0

(END OF REPORT)