

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. 12483.0

Luminaire Tested: **S801 ISL 2T5HO**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12483.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S801 ISL 2T5HO  
Description: 2/54W T5HO LAMPS 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE  
SEMI-SPEC SIDE REFLECTORS w/MIRO5 CENTER REFLECTOR  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=117

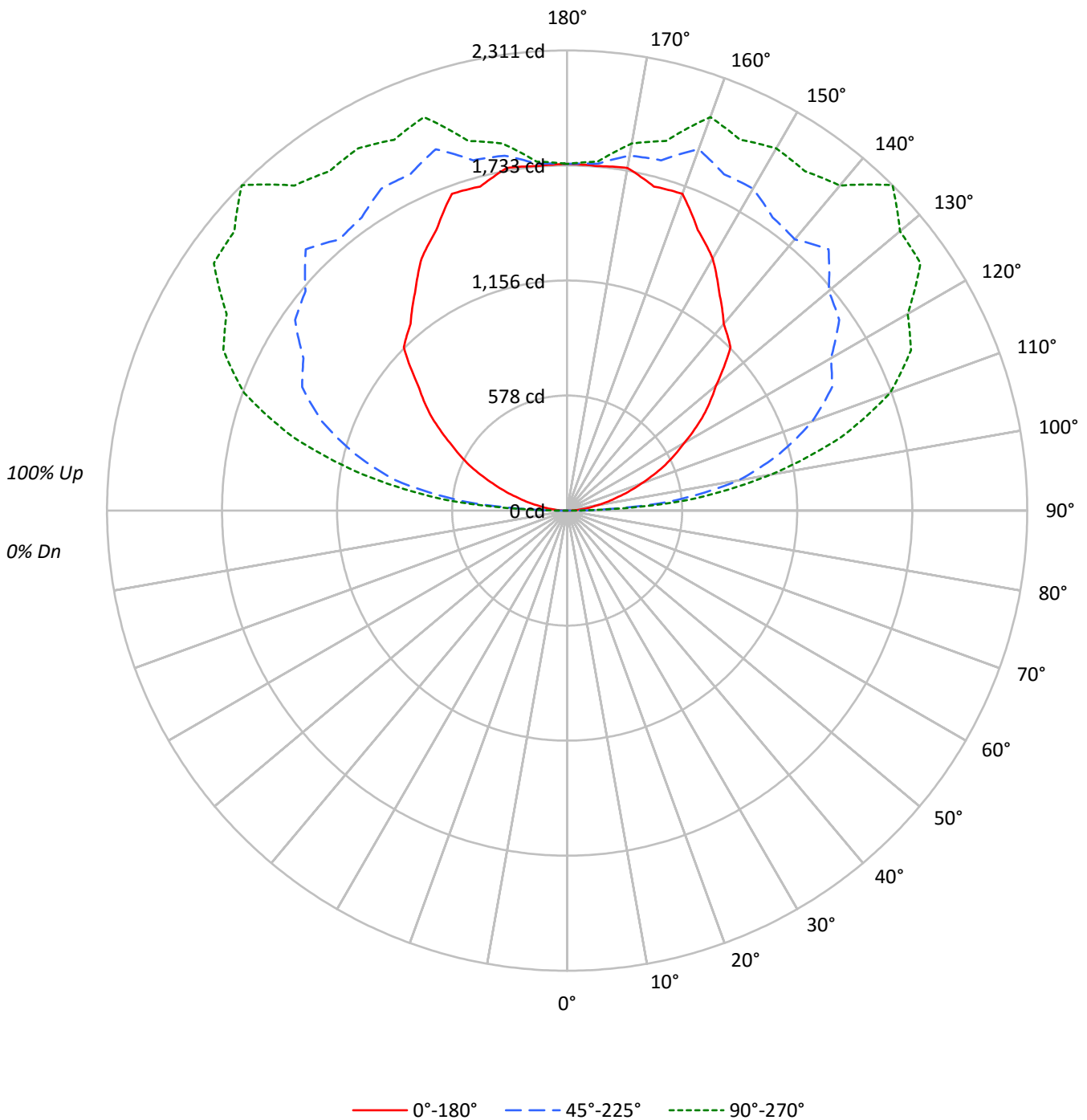
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 8235.4 lumens  
Efficiency: 82.4%  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4' x H: 0.01')  
CIE Type: Indirect

Input Watts (W): 117  
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

TEST NUMBER: BALLABS TEST NO. 12483.0  
CATALOG NUMBER: S801 ISL 2T5HO

### Luminous Intensity Polar Plot





TEST NUMBER: BALLABS TEST NO. 12483.0  
 CATALOG NUMBER: S801 ISL 2T5HO

**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	78	78	78	78	67	67	67	67	46	46	46	26	26	26	8	8	8	0
1	71	68	65	62	61	58	56	54	40	38	37	23	22	22	7	7	7	0
2	65	59	55	51	55	51	47	44	35	33	31	20	19	18	6	6	6	0
3	59	52	47	42	50	45	40	37	31	28	26	18	16	15	6	5	5	0
4	54	46	40	35	46	39	34	31	27	24	22	16	14	13	5	5	4	0
5	49	41	34	30	42	35	30	26	24	21	18	14	12	11	4	4	4	0
6	45	36	30	26	38	31	26	22	21	18	16	12	11	9	4	3	3	0
7	42	32	26	22	35	28	23	19	19	16	14	11	9	8	4	3	3	0
8	38	29	23	19	33	25	20	17	17	14	12	10	8	7	3	3	2	0
9	35	26	21	17	30	23	18	15	16	13	10	9	7	6	3	2	2	0
10	33	24	18	15	28	21	16	13	14	11	9	8	7	5	3	2	2	0

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

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: BALLABS TEST NO. 12483.0  
 CATALOG NUMBER: S801 ISL 2T5HO

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	444.1	5.4	4.4
100°-110°	1039.8	12.6	10.4
110°-120°	1326.2	16.1	13.3
120°-130°	1409.7	17.1	14.1
130°-140°	1357.7	16.5	13.6
140°-150°	1110.4	13.5	11.1
150°-160°	856.7	10.4	8.6
160°-170°	521.7	6.3	5.2
170°-180°	169.0	2.1	1.7
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	2810.1	34.1	28.1
90°-150°	6688.0	81.2	66.9
90°-180°	8235.0	100.0	82.4
0°-180°	8235.4	100.0	82.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	10
95°	70	327	517	585	607	77
105°	267	667	1104	1358	1425	286
115°	544	932	1468	1794	1905	536
125°	838	1180	1668	2039	2166	745
135°	1160	1459	1856	2187	2311	873
145°	1333	1522	1798	2000	2081	838
155°	1554	1668	1864	2005	2055	722
165°	1685	1722	1821	1891	1922	482
175°	1737	1740	1748	1756	1759	166
180°	1741	1741	1741	1741	1741	



TEST NUMBER: BALLABS TEST NO. 12483.0  
 CATALOG NUMBER: S801 ISL 2T5HO

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
5°	0	0	0	0	0
10°	0	0	0	0	0
15°	0	0	0	0	0
20°	0	0	0	0	0
25°	0	0	0	0	0
30°	0	0	0	0	0
35°	0	0	0	0	0
40°	0	0	0	0	0
45°	0	0	0	0	0
50°	0	0	0	0	0
55°	0	0	0	0	0
60°	0	0	0	0	0
65°	0	0	0	0	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0
90°	0	0	0	0	0
95°	70	327	517	585	607
100°	154	518	875	999	1040
105°	267	667	1104	1358	1425
110°	398	813	1310	1624	1725
115°	544	932	1468	1794	1905
120°	679	1028	1529	1867	1975
125°	838	1180	1668	2039	2166
130°	977	1288	1715	2057	2182
135°	1160	1459	1856	2187	2311
140°	1224	1460	1778	2033	2131
145°	1333	1522	1798	2000	2081
150°	1462	1618	1867	2036	2100
155°	1554	1668	1864	2005	2055
160°	1693	1778	1931	2057	2103
165°	1685	1722	1821	1891	1922
170°	1747	1763	1810	1856	1872
175°	1737	1740	1748	1756	1759
180°	1741	1741	1741	1741	1741

(END OF REPORT)