

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. 12473.0

Luminaire Tested: **S801 BSL 2T5HO**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12473.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S801 BSL 2T5HO  
Description: 2/54W T5HO LAMPS 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE  
SEMI-SPEC SIDE REFLECTORS w/OPEN CENTER DOWN & OPEN TOP  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=117

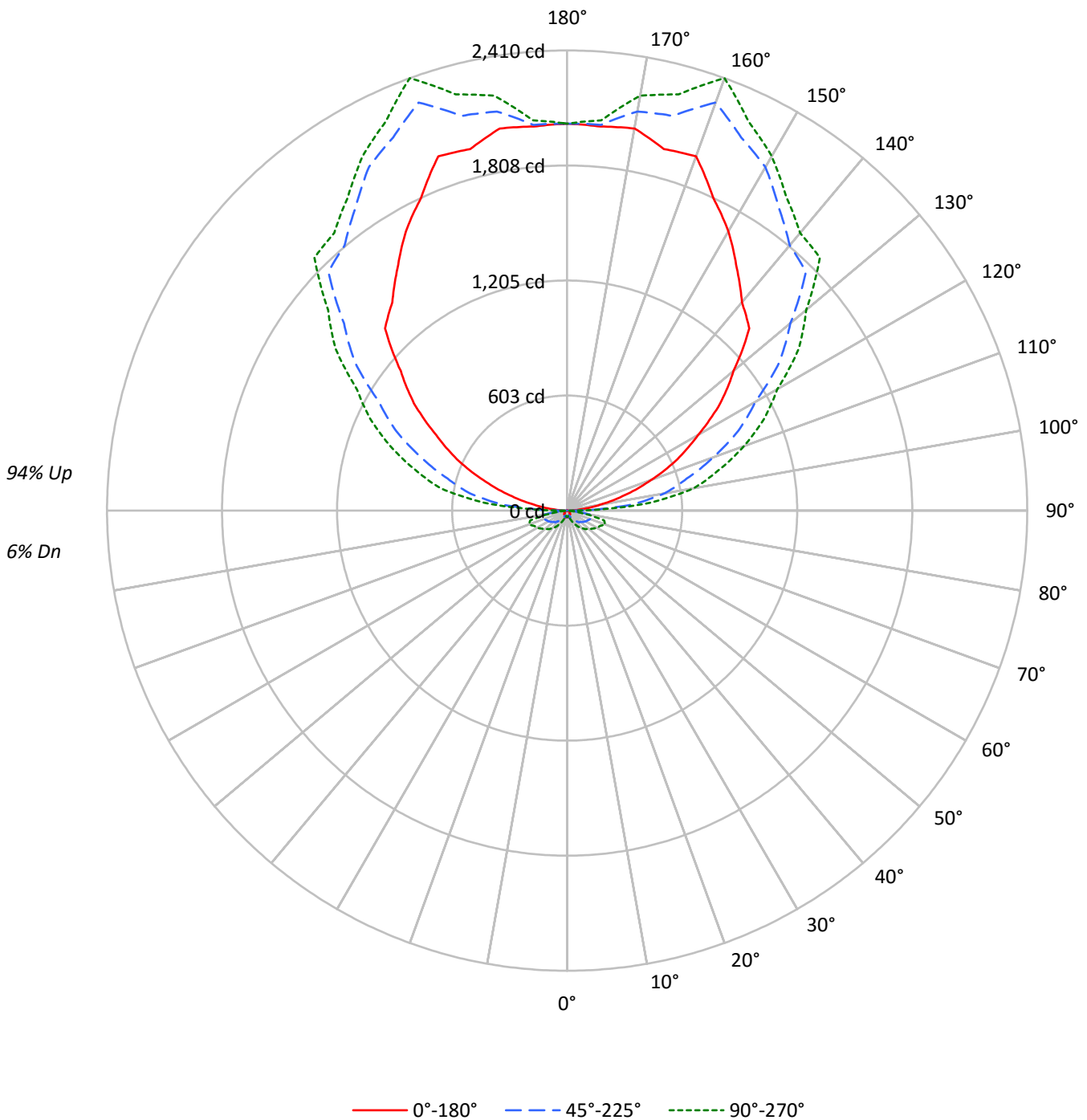
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 7786.7 lumens  
Efficiency: 77.9%  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 4.14 / 3.32  
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. 12473.0  
CATALOG NUMBER: S801 BSL 2T5HO

### Luminous Intensity Polar Plot





TEST NUMBER: BALLABS TEST NO. 12473.0  
 CATALOG NUMBER: S801 BSL 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	75	75	75	75	65	65	65	65	46	46	46	28	28	28	12	12	12	5
1	68	65	62	59	59	56	54	52	40	38	37	24	24	23	10	10	10	3
2	62	56	52	48	53	49	45	42	34	32	30	21	20	19	9	8	8	2
3	56	49	44	39	48	42	38	34	30	27	25	18	17	15	8	7	6	2
4	51	43	37	33	44	37	33	29	26	23	21	16	14	13	7	6	5	1
5	47	38	32	28	40	33	28	24	23	20	18	14	12	11	6	5	4	1
6	43	34	28	24	37	29	24	21	21	17	15	13	11	9	5	4	4	1
7	39	30	25	20	34	26	21	18	19	15	13	11	9	8	5	4	3	1
8	36	27	22	18	31	24	19	16	17	14	11	10	8	7	4	3	3	1
9	34	25	19	16	29	21	17	14	15	12	10	9	7	6	4	3	2	0
10	31	22	17	14	27	19	15	12	14	11	9	9	7	5	3	3	2	0

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

	0°	45°	90°
0°	104	104	104
5°	118	118	108
10°	119	112	99
15°	135	121	132
20°	103	96	156
25°	107	133	243
30°	101	185	312
35°	106	256	430
40°	96	313	516
45°	104	404	647
50°	88	474	772
55°	82	594	943
60°	87	745	1189
65°	79	924	1469
70°	49	1230	2011
75°	51	1771	2478
80°	19	2169	1498
85°	0	378	371



TEST NUMBER: BALLABS TEST NO. 12473.0  
 CATALOG NUMBER: S801 BSL 2T5HO

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.2	0.0	0.0
10°-20°	9.8	0.1	0.1
20°-30°	19.5	0.2	0.2
30°-40°	38.4	0.5	0.4
40°-50°	62.0	0.8	0.6
50°-60°	86.2	1.1	0.9
60°-70°	110.0	1.4	1.1
70°-80°	118.7	1.5	1.2
80°-90°	30.2	0.4	0.3
90°-100°	288.3	3.7	2.9
100°-110°	659.6	8.5	6.6
110°-120°	943.1	12.1	9.4
120°-130°	1171.0	15.0	11.7
130°-140°	1292.3	16.6	12.9
140°-150°	1175.7	15.1	11.8
150°-160°	971.8	12.5	9.7
160°-170°	610.1	7.8	6.1
170°-180°	196.9	2.5	2.0
0°-30°	32.4	0.4	0.3
0°-40°	70.8	0.9	0.7
0°-60°	219.0	2.8	2.2
0°-90°	477.8	6.1	4.8
90°-120°	1890.9	24.3	18.9
90°-150°	5530.0	71.0	55.3
90°-180°	7309.0	93.9	73.1
0°-180°	7786.7	100.0	77.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31	31	31	31	31	
5°	35	35	35	35	32	3
15°	39	36	35	36	38	10
25°	29	26	36	60	66	13
35°	26	25	63	95	106	16
45°	22	33	86	125	138	16
55°	14	39	103	150	164	13
65°	10	47	119	172	190	9
75°	4	51	142	213	200	4
85°	0	39	11	11	11	0
90°	0	0	2	2	2	10
95°	70	206	325	390	413	86
105°	312	477	649	780	824	334
115°	637	855	989	1098	1138	627
125°	979	1244	1358	1448	1482	870
135°	1349	1658	1769	1845	1872	1016
145°	1549	1781	1934	1984	2003	973
155°	1809	1954	2156	2231	2248	839
165°	1960	2007	2140	2228	2256	561
175°	2019	2019	2028	2043	2052	193
180°	2026	2026	2026	2026	2026	



TEST NUMBER: BALLABS TEST NO. 12473.0  
 CATALOG NUMBER: S801 BSL 2T5HO

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31	31	31	31	31
5°	35	35	35	35	32
10°	35	33	33	32	29
15°	39	36	35	36	38
20°	29	27	27	39	44
25°	29	26	36	60	66
30°	26	23	48	73	81
35°	26	25	63	95	106
40°	22	29	72	107	119
45°	22	33	86	125	138
50°	17	38	92	138	150
55°	14	39	103	150	164
60°	13	47	113	164	181
65°	10	47	119	172	190
70°	5	47	129	190	212
75°	4	51	142	213	200
80°	1	53	119	92	83
85°	0	39	11	11	11
90°	0	0	2	2	2
95°	70	206	325	390	413
100°	175	324	517	640	673
105°	312	477	649	780	824
110°	468	659	813	939	984
115°	637	855	989	1098	1138
120°	792	1025	1138	1237	1271
125°	979	1244	1358	1448	1482
130°	1138	1421	1526	1604	1635
135°	1349	1658	1769	1845	1872
140°	1424	1695	1813	1876	1898
145°	1549	1781	1934	1984	2003
150°	1689	1888	2077	2130	2143
155°	1809	1954	2156	2231	2248
160°	1974	2081	2274	2380	2410
165°	1960	2007	2140	2228	2256
170°	2032	2046	2122	2184	2206
175°	2019	2019	2028	2043	2052
180°	2026	2026	2026	2026	2026

(END OF REPORT)