

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. 12476.0

Luminaire Tested: **S801 BSL 2T5HO PERF TOP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12476.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S801 BSL 2T5HO PERF TOP  
Description: 2/54W T5HO LAMPS 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE  
SEMI-SPEC SIDE REFL w/OPEN CENTER DOWN & PERF TOP  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=114

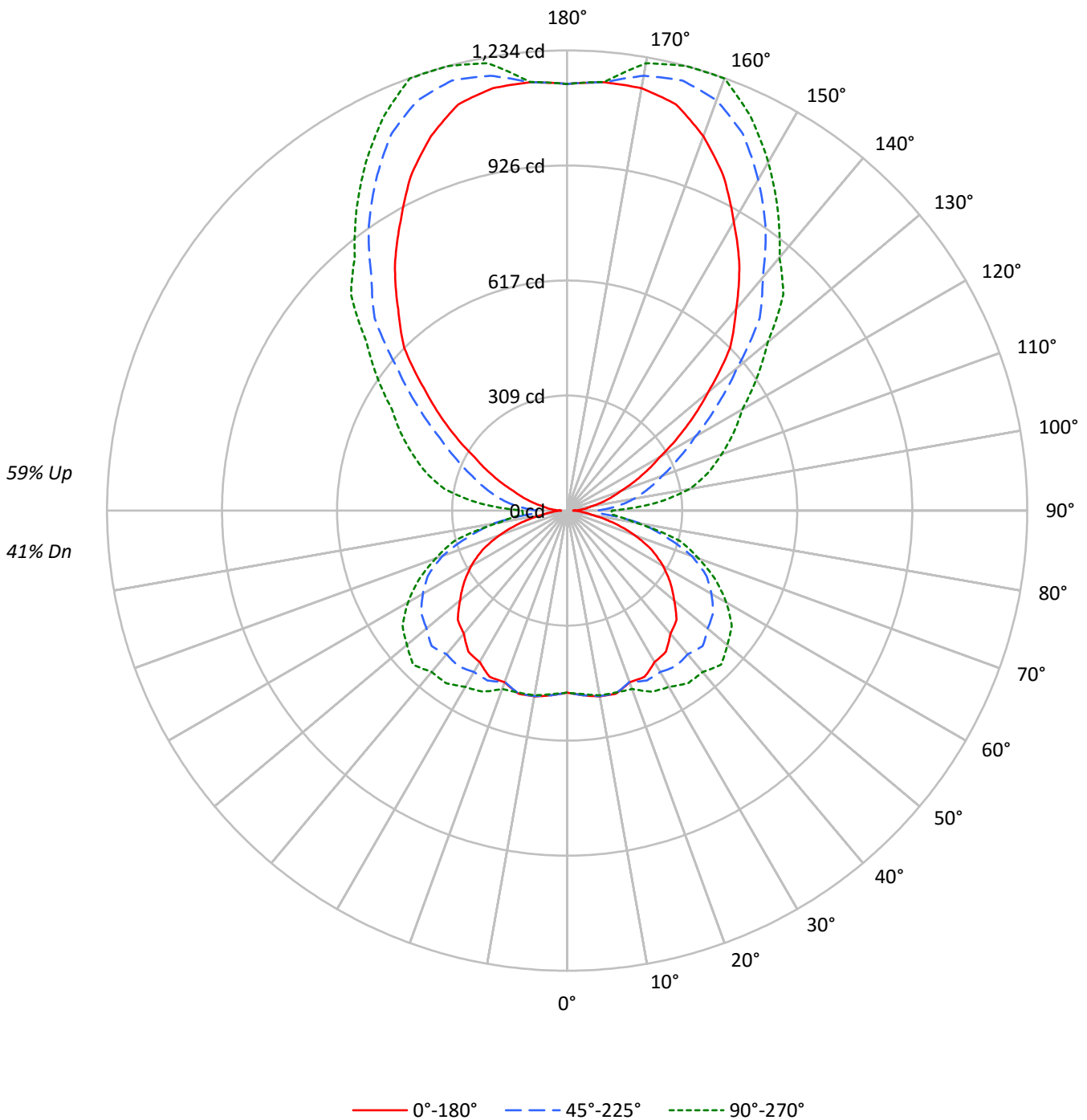
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 5576.9 lumens  
Efficiency: 55.8%  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.74 / 1.76  
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4' x H: 0.27')  
CIE Type: General Diffuse

Input Watts (W): 114  
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	59	59	59	59	53	53	53	53	44	44	44	35	35	35	27	27	27	23
1	53	50	48	45	48	46	44	42	37	36	34	30	29	28	23	22	21	18
2	48	43	39	36	43	39	36	33	32	30	28	25	24	22	19	18	17	14
3	43	37	33	30	39	34	30	27	28	25	23	22	20	18	17	15	14	11
4	39	33	28	25	35	30	26	23	24	21	19	19	17	15	15	13	12	9
5	36	29	24	21	32	26	22	19	22	18	16	17	15	13	13	11	10	8
6	33	26	21	18	30	24	19	16	19	16	14	15	13	11	12	10	9	7
7	30	23	19	15	27	21	17	14	17	14	12	14	11	10	10	9	7	6
8	28	21	16	13	25	19	15	12	16	13	10	13	10	8	10	8	7	5
9	26	19	15	12	24	17	14	11	14	11	9	11	9	7	9	7	6	5
10	24	17	13	10	22	16	12	10	13	10	8	11	8	7	8	6	5	4

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

	0°	45°	90°
0°	1637	1637	1637
5°	1664	1633	1616
10°	1704	1638	1617
15°	1733	1635	1609
20°	1708	1581	1618
25°	1766	1643	1714
30°	1749	1662	1770
35°	1807	1736	1871
40°	1786	1776	1928
45°	1844	1895	2071
50°	1811	1914	2088
55°	1803	1984	2127
60°	1784	2004	2087
65°	1740	2025	2021
70°	1588	1948	1908
75°	1356	1722	1795
80°	963	1471	1226
85°	846	792	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	47.6	0.9	0.5
10°-20°	142.5	2.6	1.4
20°-30°	233.1	4.2	2.3
30°-40°	317.0	5.7	3.2
40°-50°	384.3	6.9	3.8
50°-60°	406.7	7.3	4.1
60°-70°	373.0	6.7	3.7
70°-80°	270.5	4.8	2.7
80°-90°	118.6	2.1	1.2
90°-100°	156.1	2.8	1.6
100°-110°	258.1	4.6	2.6
110°-120°	345.7	6.2	3.5
120°-130°	450.3	8.1	4.5
130°-140°	554.5	9.9	5.5
140°-150°	570.8	10.2	5.7
150°-160°	503.2	9.0	5.0
160°-170°	334.0	6.0	3.3
170°-180°	110.9	2.0	1.1
0°-30°	423.2	7.6	4.2
0°-40°	740.2	13.3	7.4
0°-60°	1531.1	27.5	15.3
0°-90°	2293.2	41.1	22.9
90°-120°	759.9	13.6	7.6
90°-150°	2335.5	41.9	23.4
90°-180°	3284.0	58.9	32.8
0°-180°	5576.9	100.0	55.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	497	497	497	496	494	48
15°	508	505	507	508	505	142
25°	492	487	503	530	536	225
35°	462	464	509	550	565	286
45°	415	437	514	568	584	316
55°	338	387	478	527	539	302
65°	251	327	412	437	439	245
75°	131	241	275	322	313	138
85°	39	101	88	106	119	38
90°	16	55	79	107	120	16
95°	44	106	135	207	241	40
105°	109	157	225	343	391	116
115°	218	262	329	446	492	217
125°	388	425	490	584	621	348
135°	618	680	730	791	820	469
145°	805	870	928	963	985	502
155°	991	1044	1115	1153	1165	454
165°	1128	1140	1194	1231	1234	316
175°	1153	1146	1153	1153	1154	110
180°	1144	1144	1144	1144	1144	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	488	488	488	488	488
5°	497	497	497	496	494
10°	506	505	505	505	503
15°	508	505	507	508	505
20°	490	487	489	502	509
25°	492	487	503	530	536
30°	469	469	500	534	546
35°	462	464	509	550	565
40°	431	440	503	550	565
45°	415	437	514	568	584
50°	375	409	492	545	561
55°	338	387	478	527	539
60°	297	357	447	486	493
65°	251	327	412	437	439
70°	192	290	355	365	375
75°	131	241	275	322	313
80°	69	170	200	187	185
85°	39	101	88	106	119
90°	16	55	79	107	120
95°	44	106	135	207	241
100°	67	128	182	290	334
105°	109	157	225	343	391
110°	153	201	271	388	440
115°	218	262	329	446	492
120°	287	329	397	502	542
125°	388	425	490	584	621
130°	493	545	595	667	702
135°	618	680	730	791	820
140°	705	770	816	866	886
145°	805	870	928	963	985
150°	894	951	1025	1066	1079
155°	991	1044	1115	1153	1165
160°	1068	1103	1171	1219	1233
165°	1128	1140	1194	1231	1234
170°	1150	1154	1184	1209	1218
175°	1153	1146	1153	1153	1154
180°	1144	1144	1144	1144	1144

(END OF REPORT)