

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. 12475.0

Luminaire Tested: **S801 BSL 2T5HO PERF TOP w/OVERLAY**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12475.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S801 BSL 2T5HO PERF TOP w/OVERLAY  
Description: 2/54W T5HO LAMPS 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE  
SEMI-SPEC SIDE REFL w/OPEN CENTER DOWN & PERF TOP w/OVERLAY  
Light Source: -  
FP54T5HO/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=113

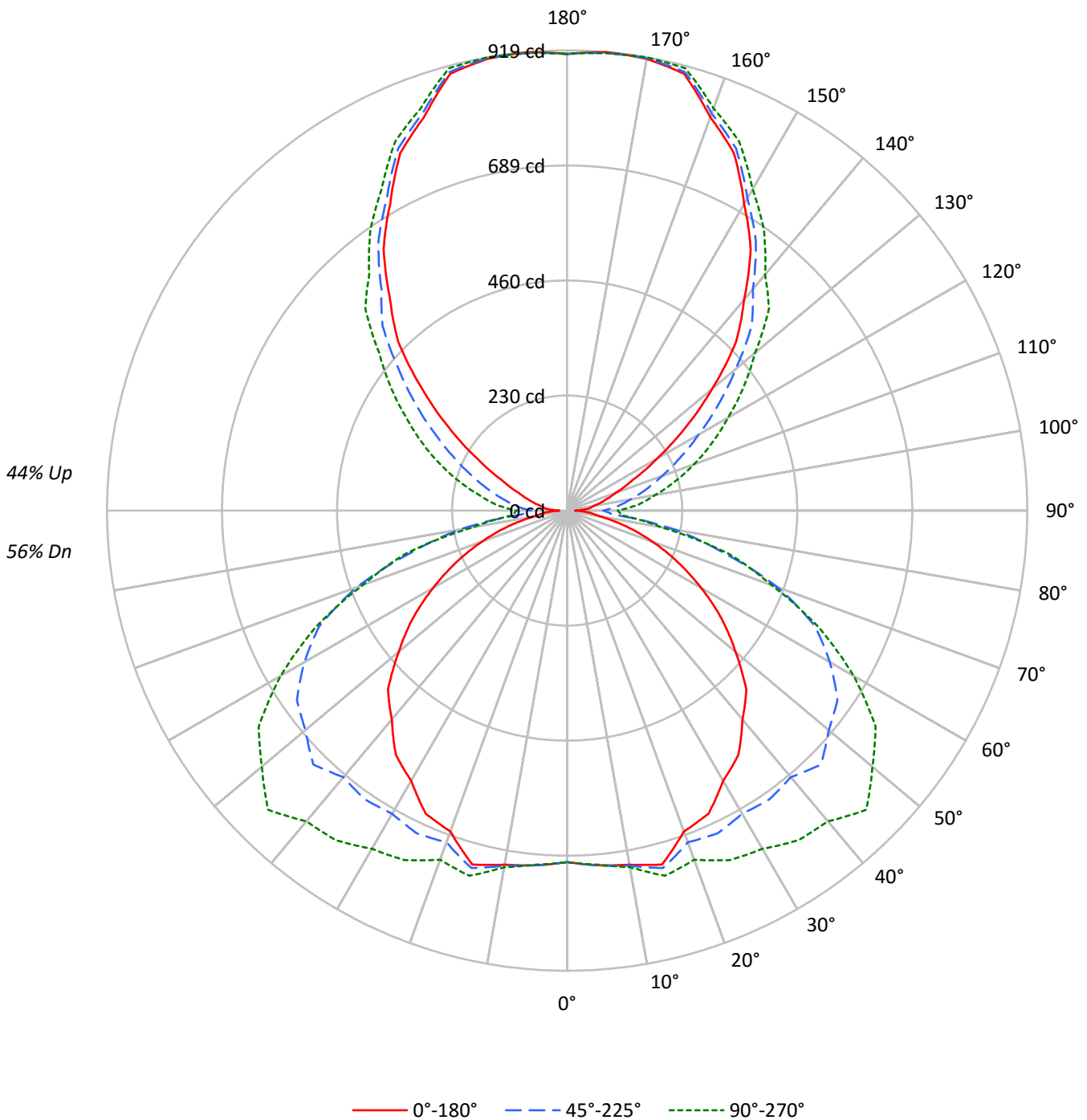
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 5365.3 lumens  
Efficiency: 53.7%  
Efficacy: 47.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.74 / 1.73  
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4' x H: 0.27')  
CIE Type: General Diffuse

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										
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	50	30	10	50	30	10	0														
RCR																																						
0	58	58	58	58	54	54	54	54	47	47	47	40	40	40	33	33	33	30					30															
1	53	50	48	45	49	46	44	42	40	38	37	34	33	32	28	27	27	24					24															
2	47	43	39	36	44	40	37	34	34	32	30	29	27	26	24	23	22	19					19															
3	43	37	33	30	40	35	31	28	30	27	24	25	23	21	21	19	18	16					16															
4	39	33	28	25	36	30	26	23	26	23	20	22	20	18	18	16	15	13					13															
5	36	29	24	21	33	27	23	20	23	20	17	20	17	15	16	14	13	11					11															
6	33	26	21	18	30	24	20	17	21	17	15	18	15	13	15	13	11	9					9															
7	30	23	19	15	28	22	17	15	19	15	13	16	13	11	13	11	10	8					8															
8	28	21	17	13	26	20	16	13	17	14	11	14	12	10	12	10	8	7					7															
9	26	19	15	12	24	18	14	11	15	12	10	13	11	9	11	9	8	6					6															
10	24	17	13	11	22	16	13	10	14	11	9	12	10	8	10	8	7	6					6															

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

	0°	45°	90°
0°	2355	2355	2355
5°	2381	2336	2323
10°	2417	2335	2325
15°	2497	2384	2405
20°	2377	2279	2359
25°	2397	2322	2463
30°	2323	2323	2529
35°	2331	2401	2663
40°	2259	2454	2764
45°	2249	2644	2997
50°	2120	2653	2962
55°	2011	2735	2967
60°	1856	2717	2798
65°	1691	2684	2560
70°	1497	2452	2208
75°	1262	2010	1915
80°	921	1604	1265
85°	911	819	871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	68.1	1.3	0.7
10°-20°	206.2	3.8	2.1
20°-30°	328.1	6.1	3.3
30°-40°	436.9	8.1	4.4
40°-50°	526.1	9.8	5.3
50°-60°	540.7	10.1	5.4
60°-70°	467.8	8.7	4.7
70°-80°	309.2	5.8	3.1
80°-90°	123.1	2.3	1.2
90°-100°	111.0	2.1	1.1
100°-110°	168.6	3.1	1.7
110°-120°	240.7	4.5	2.4
120°-130°	326.4	6.1	3.3
130°-140°	397.4	7.4	4.0
140°-150°	410.1	7.6	4.1
150°-160°	364.8	6.8	3.6
160°-170°	252.7	4.7	2.5
170°-180°	87.5	1.6	0.9
0°-30°	602.4	11.2	6.0
0°-40°	1039.3	19.4	10.4
0°-60°	2106.1	39.3	21.1
0°-90°	3006.1	56.0	30.1
90°-120°	520.3	9.7	5.2
90°-150°	1654.3	30.8	16.5
90°-180°	2359.0	44.0	23.6
0°-180°	5365.3	100.0	53.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	711	711	711	711	710	68
15°	732	732	739	751	755	203
25°	668	674	711	754	770	305
35°	596	618	704	777	804	370
45°	506	565	717	816	845	386
55°	377	481	659	735	752	336
65°	244	403	546	562	556	242
75°	122	301	321	346	334	130
85°	42	122	91	100	110	39
90°	16	60	72	91	101	16
95°	42	97	101	126	144	34
105°	76	119	163	201	222	82
115°	144	185	248	297	319	148
125°	287	315	368	412	430	259
135°	477	489	521	555	570	363
145°	639	643	657	676	685	397
155°	788	789	798	808	813	360
165°	903	904	907	911	914	251
175°	919	917	917	917	917	88
180°	912	912	912	912	912	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	702	702	702	702	702
5°	711	711	711	711	710
10°	718	718	720	723	723
15°	732	732	739	751	755
20°	682	686	705	732	742
25°	668	674	711	754	770
30°	623	636	699	758	780
35°	596	618	704	777	804
40°	545	583	695	782	810
45°	506	565	717	816	845
50°	439	517	682	774	796
55°	377	481	659	735	752
60°	309	440	606	655	661
65°	244	403	546	562	556
70°	181	360	447	431	434
75°	122	301	321	346	334
80°	66	206	218	195	191
85°	42	122	91	100	110
90°	16	60	72	91	101
95°	42	97	101	126	144
100°	54	109	129	159	178
105°	76	119	163	201	222
110°	103	142	201	247	269
115°	144	185	248	297	319
120°	207	246	303	352	371
125°	287	315	368	412	430
130°	378	393	439	475	490
135°	477	489	521	555	570
140°	550	556	577	603	615
145°	639	643	657	676	685
150°	707	708	720	733	741
155°	788	789	798	808	813
160°	836	838	844	852	855
165°	903	904	907	911	914
170°	916	916	917	919	919
175°	919	917	917	917	917
180°	912	912	912	912	912

(END OF REPORT)