

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. 12474.0

Luminaire Tested: **S801 BSL 2T5 PERF TOP w/OVERLAY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12474.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S801 BSL 2T5 PERF TOP w/OVERLAY
Description: 2/28W T5 LAMPS 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE
SEMI-SPEC SIDE REFL w/OPEN CENTER DOWN & PERF TOP w/OVERLAY
Light Source: -
FP28T5/835
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=66

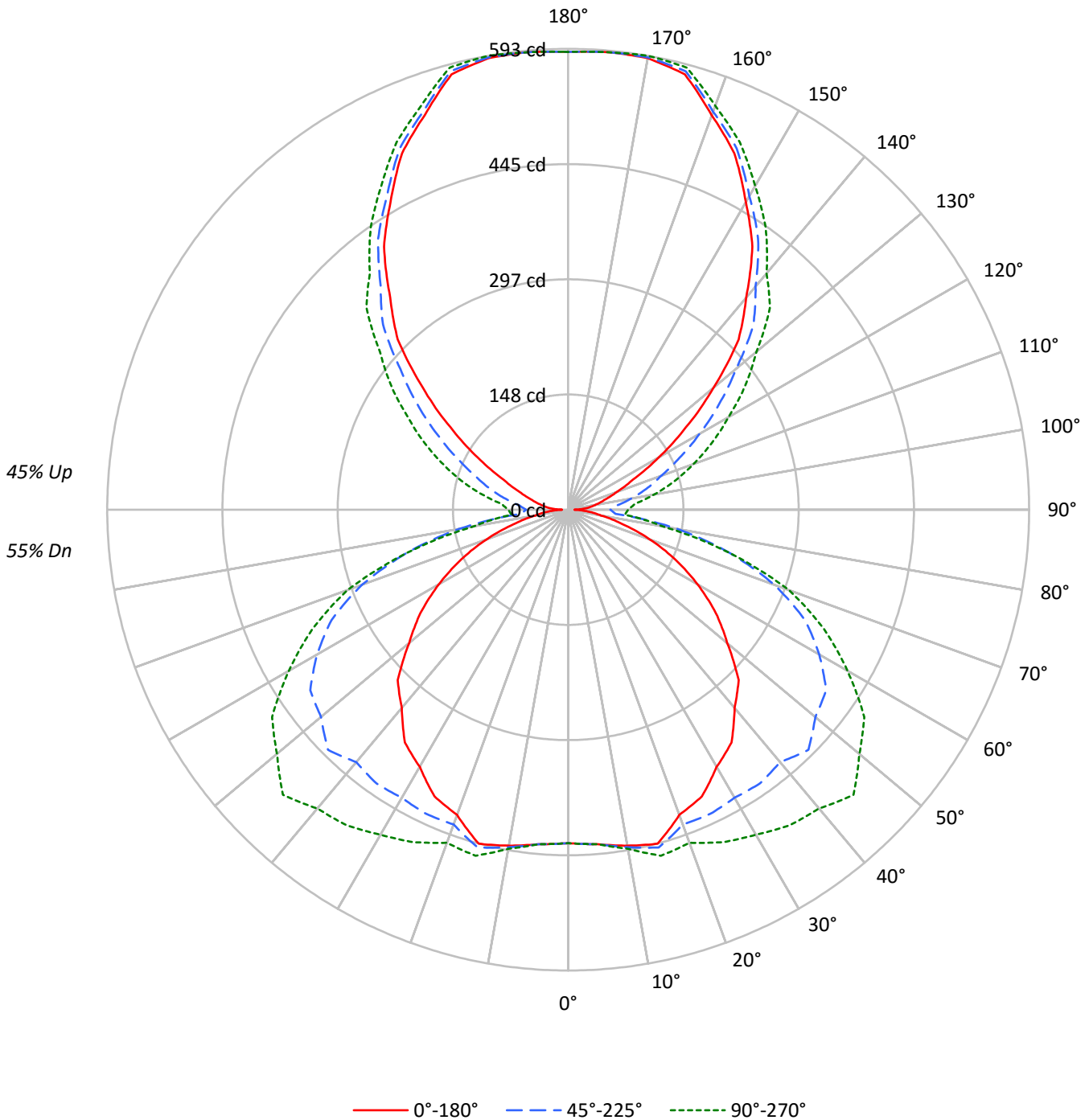
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3386.1 lumens
Efficiency: 58.4%
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.76 / 1.72
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4' x H: 0.27')
CIE Type: General Diffuse

Input Watts (W): 66
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									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	63	63	63	63	59	59	59	59	50	50	50	43	43	43	36	36	36	32																			
1	57	54	52	49	53	50	48	46	43	41	40	36	35	34	30	29	28	25																			
2	51	47	43	39	47	43	40	37	37	34	32	31	29	27	26	24	23	20																			
3	46	40	36	32	43	38	33	30	32	29	26	27	25	22	22	20	19	17																			
4	42	35	30	27	39	33	28	25	28	25	22	24	21	19	20	18	16	14																			
5	39	31	26	22	36	29	25	21	25	21	18	21	18	16	17	15	13	12																			
6	35	28	23	19	33	26	21	18	22	19	16	19	16	14	16	13	12	10																			
7	33	25	20	17	30	23	19	16	20	16	14	17	14	12	14	12	10	9																			
8	30	23	18	15	28	21	17	14	18	15	12	15	13	11	13	11	9	8																			
9	28	21	16	13	26	19	15	12	17	13	11	14	11	9	12	10	8	7																			
10	26	19	14	11	24	18	14	11	15	12	10	13	10	8	11	9	7	6																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1439	1439	1439
5°	1446	1419	1413
10°	1478	1430	1424
15°	1518	1452	1468
20°	1457	1393	1450
25°	1461	1411	1510
30°	1424	1423	1566
35°	1431	1467	1643
40°	1380	1497	1713
45°	1378	1611	1841
50°	1290	1614	1820
55°	1237	1681	1835
60°	1153	1672	1757
65°	1054	1652	1671
70°	926	1547	1536
75°	755	1346	1233
80°	600	1045	815
85°	542	549	578



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.5	1.2	0.7
10°-20°	125.9	3.7	2.2
20°-30°	200.8	5.9	3.5
30°-40°	268.0	7.9	4.6
40°-50°	321.5	9.5	5.5
50°-60°	332.7	9.8	5.7
60°-70°	294.8	8.7	5.1
70°-80°	200.1	5.9	3.5
80°-90°	80.8	2.4	1.4
90°-100°	70.9	2.1	1.2
100°-110°	107.1	3.2	1.8
110°-120°	154.1	4.6	2.7
120°-130°	210.4	6.2	3.6
130°-140°	257.0	7.6	4.4
140°-150°	265.8	7.8	4.6
150°-160°	235.3	7.0	4.1
160°-170°	162.8	4.8	2.8
170°-180°	56.4	1.7	1.0
0°-30°	368.3	10.9	6.3
0°-40°	636.3	18.8	11.0
0°-60°	1290.5	38.1	22.2
0°-90°	1866.3	55.1	32.2
90°-120°	332.0	9.8	5.7
90°-150°	1065.2	31.5	18.4
90°-180°	1520.0	44.9	26.2
0°-180°	3386.1	100.0	58.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	432	432	432	434	432	41
15°	445	446	450	458	461	124
25°	407	413	432	460	472	186
35°	366	380	430	476	496	227
45°	310	344	437	500	519	236
55°	232	297	405	454	465	207
65°	152	248	336	361	363	150
75°	73	181	215	234	215	79
85°	25	74	61	66	73	24
90°	8	39	54	69	77	9
95°	25	63	63	74	86	21
105°	48	76	104	128	141	52
115°	92	119	158	192	204	95
125°	185	203	237	266	278	167
135°	310	316	337	358	367	235
145°	413	418	426	438	443	256
155°	506	507	513	521	522	232
165°	580	580	584	587	589	162
175°	591	591	591	593	591	56
180°	589	589	589	589	589	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429	429	429	429	429
5°	432	432	432	434	432
10°	439	439	441	443	443
15°	445	446	450	458	461
20°	418	420	431	447	456
25°	407	413	432	460	472
30°	382	392	428	466	483
35°	366	380	430	476	496
40°	333	355	424	479	502
45°	310	344	437	500	519
50°	267	314	415	473	489
55°	232	297	405	454	465
60°	192	270	373	405	415
65°	152	248	336	361	363
70°	112	219	282	295	302
75°	73	181	215	234	215
80°	43	131	142	126	123
85°	25	74	61	66	73
90°	8	39	54	69	77
95°	25	63	63	74	86
100°	35	69	82	100	112
105°	48	76	104	128	141
110°	66	89	127	157	171
115°	92	119	158	192	204
120°	134	157	195	226	238
125°	185	203	237	266	278
130°	244	256	282	306	316
135°	310	316	337	358	367
140°	356	361	375	390	397
145°	413	418	426	438	443
150°	457	458	466	477	481
155°	506	507	513	521	522
160°	540	542	545	551	553
165°	580	580	584	587	589
170°	590	590	591	593	593
175°	591	591	591	593	591
180°	589	589	589	589	589

(END OF REPORT)