

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. 12342.0

Luminaire Tested: **801 BSL 2T5 S28C**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12342.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 801 BSL 2T5 S28C  
Description: 2/28W T5 4'DIR/INDIRECT PENDANT LUMINAIRE w/SEMI-SPEC REF  
WHITE ACRYLIC SIDED BLUE RIBBED PLASTIC PANEL  
Light Source: -  
FP28T5/835/RS  
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=68

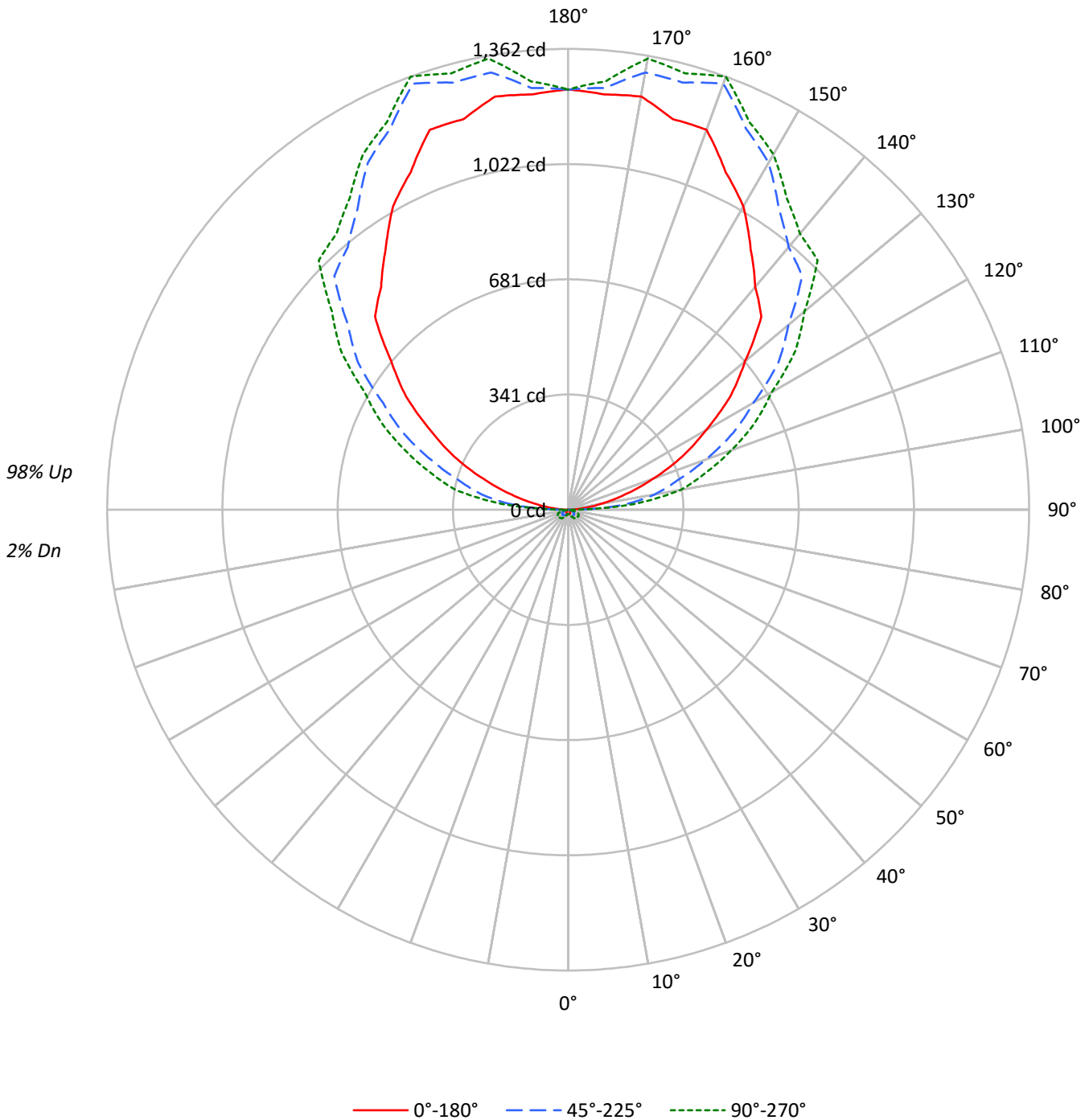
**Summary**

Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4200.2 lumens  
Efficiency: 72.4%  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 2.77 / 2.2  
Luminous Opening: Rectangular (W 0.33' x L: 3.67' x H: 0')  
CIE Type: Indirect

Input Watts (W): 68  
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					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																						
0	69	69	69	69	59	59	59	59	41	41	41	24	24	24	9	9	9					2
1	63	60	57	55	54	52	50	48	36	34	33	21	20	20	8	7	7					1
2	57	52	48	45	49	45	42	39	31	29	27	18	17	16	7	6	6					1
3	52	46	41	37	45	39	36	32	27	25	23	16	15	14	6	5	5					1
4	48	40	35	31	41	35	30	27	24	21	19	14	13	12	5	5	4					1
5	43	36	30	26	37	31	26	23	21	19	16	13	11	10	5	4	4					1
6	40	32	26	23	34	27	23	20	19	16	14	11	10	9	4	4	3					0
7	37	28	23	19	31	25	20	17	17	14	12	10	9	7	4	3	3					0
8	34	26	20	17	29	22	18	15	15	13	11	9	8	6	3	3	2					0
9	31	23	18	15	27	20	16	13	14	11	9	8	7	6	3	2	2					0
10	29	21	16	13	25	18	14	11	13	10	8	8	6	5	3	2	2					0

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

	0°	45°	90°
0°	123	123	123
5°	115	115	115
10°	116	116	116
15°	119	128	155
20°	122	150	178
25°	117	165	214
30°	112	173	254
35°	108	215	334
40°	92	242	368
45°	87	274	424
50°	69	302	480
55°	77	323	538
60°	53	370	635
65°	21	355	709
70°	26	387	799
75°	0	341	749
80°	0	254	355
85°	0	101	101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1.3	0.0	0.0
10°-20°	4.2	0.1	0.1
20°-30°	8.0	0.2	0.1
30°-40°	12.3	0.3	0.2
40°-50°	16.1	0.4	0.3
50°-60°	18.5	0.4	0.3
60°-70°	17.2	0.4	0.3
70°-80°	10.1	0.2	0.2
80°-90°	2.4	0.1	0.0
90°-100°	142.9	3.4	2.5
100°-110°	342.0	8.1	5.9
110°-120°	513.7	12.2	8.9
120°-130°	654.1	15.6	11.3
130°-140°	726.0	17.3	12.5
140°-150°	674.7	16.1	11.6
150°-160°	567.8	13.5	9.8
160°-170°	367.7	8.8	6.3
170°-180°	121.2	2.9	2.1
0°-30°	13.5	0.3	0.2
0°-40°	25.9	0.6	0.4
0°-60°	60.4	1.4	1.0
0°-90°	90.1	2.1	1.6
90°-120°	998.6	23.8	17.2
90°-150°	3053.4	72.7	52.6
90°-180°	4110.0	97.9	70.9
0°-180°	4200.2	100.0	72.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14	14	14	14	14	
5°	13	13	13	15	13	1
15°	13	13	14	17	17	4
25°	12	15	17	22	22	6
35°	10	12	20	27	31	6
45°	7	12	22	29	34	5
55°	5	11	21	31	35	4
65°	1	7	17	27	34	1
75°	0	3	10	16	22	0
85°	0	0	1	1	1	0
90°	0	7	6	2	1	5
95°	38	95	162	187	195	47
105°	173	252	333	395	420	187
115°	371	469	538	589	609	366
125°	585	688	758	803	820	519
135°	807	924	977	1024	1042	610
145°	940	1053	1085	1113	1125	591
155°	1101	1201	1243	1257	1265	511
165°	1195	1241	1307	1328	1335	341
175°	1232	1237	1251	1265	1271	118
180°	1242	1242	1242	1242	1242	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14	14	14	14	14
5°	13	13	13	15	13
10°	13	13	13	15	13
15°	13	13	14	17	17
20°	13	13	16	19	19
25°	12	15	17	22	22
30°	11	12	17	24	25
35°	10	12	20	27	31
40°	8	12	21	30	32
45°	7	12	22	29	34
50°	5	10	22	30	35
55°	5	11	21	31	35
60°	3	11	21	30	36
65°	1	7	17	27	34
70°	1	6	15	22	31
75°	0	3	10	16	22
80°	0	0	5	6	7
85°	0	0	1	1	1
90°	0	7	6	2	1
95°	38	95	162	187	195
100°	96	162	259	324	338
105°	173	252	333	395	420
110°	266	358	431	488	512
115°	371	469	538	589	609
120°	470	566	632	679	694
125°	585	688	758	803	820
130°	682	789	849	895	911
135°	807	924	977	1024	1042
140°	860	973	1013	1051	1065
145°	940	1053	1085	1113	1125
150°	1035	1148	1184	1204	1213
155°	1101	1201	1243	1257	1265
160°	1195	1280	1340	1357	1362
165°	1195	1241	1307	1328	1335
170°	1240	1260	1312	1343	1354
175°	1232	1237	1251	1265	1271
180°	1242	1242	1242	1242	1242

(END OF REPORT)