

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. 12341.0

Luminaire Tested: **801 BSL 2T5 S28B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12341.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 801 BSL 2T5 S28B
Description: 2/28W T5 4'DIR/INDIRECT PENDANT LUMINAIRE w/SEMI-SPEC REF
WHITE ACRYLIC SIDED CLEAR TEXTURED RIBBED PLASTIC PANEL
Light Source: -
FP28T5/835/RS
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=68

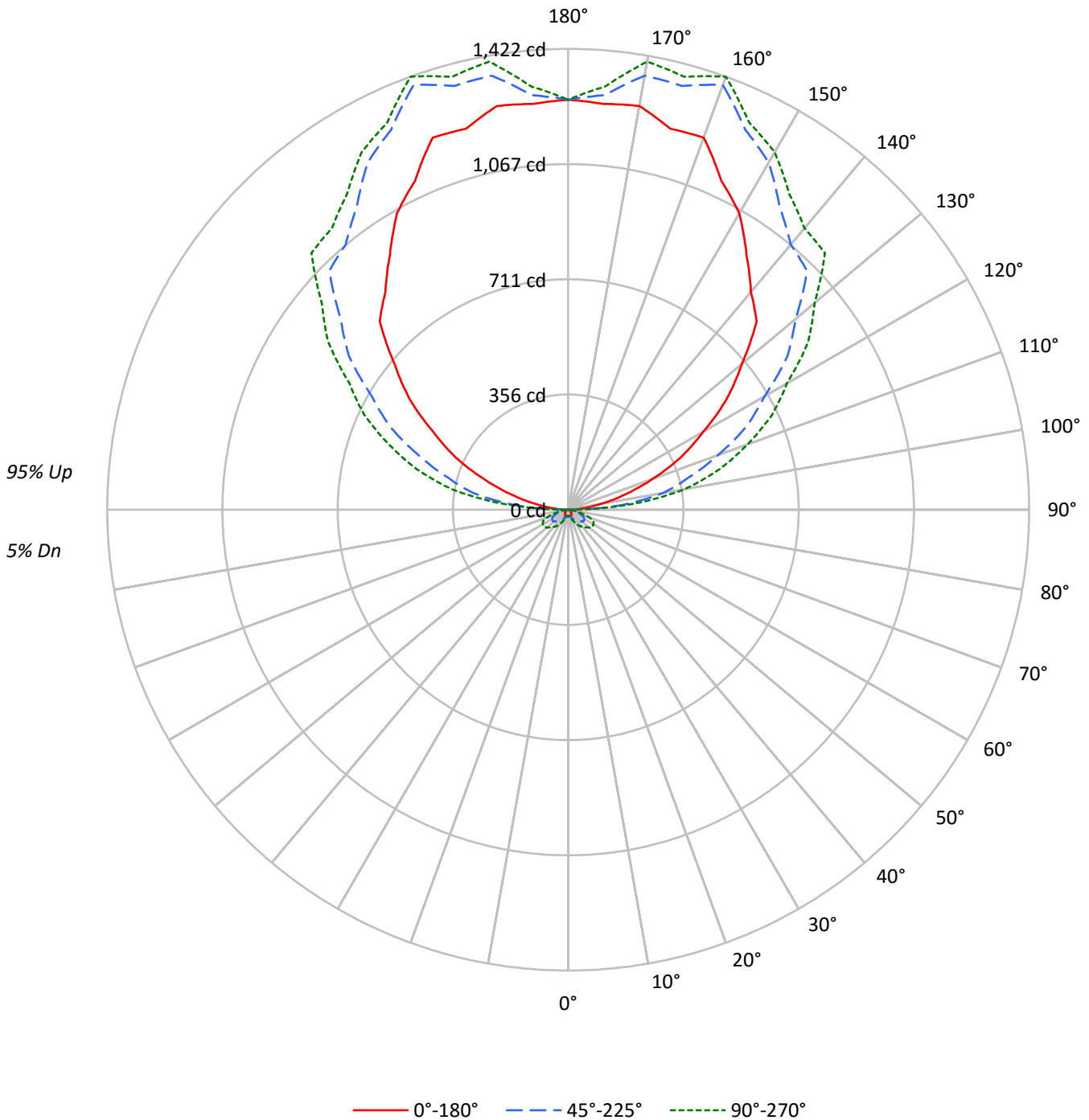
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4604.2 lumens
Efficiency: 79.4%
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 3.63 / 2.85
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 (A_{in}): 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	76	76	76	76	66	66	66	66	46	46	46		28	28	28		11	11	11	4
1	69	66	63	61	60	57	55	53	40	39	37		24	24	23		10	10	9	3
2	63	58	53	49	54	50	46	43	35	33	31		21	20	19		9	8	8	2
3	57	50	45	41	49	44	39	36	31	28	25		19	17	16		7	7	6	2
4	52	44	38	34	45	38	33	30	27	24	21		16	15	13		6	6	5	1
5	48	39	33	29	41	34	29	25	24	21	18		14	13	11		6	5	4	1
6	44	35	29	25	37	30	25	22	21	18	16		13	11	10		5	4	4	1
7	40	31	25	21	34	27	22	19	19	16	13		12	10	8		5	4	3	1
8	37	28	22	18	32	24	19	16	17	14	12		10	9	7		4	3	3	1
9	34	25	20	16	29	22	17	14	16	12	10		9	8	6		4	3	2	1
10	32	23	18	14	27	20	15	12	14	11	9		9	7	6		3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	176	176	176
5°	186	186	168
10°	188	188	170
15°	183	201	201
20°	188	225	291
25°	195	282	389
30°	193	366	509
35°	183	463	667
40°	173	529	794
45°	150	623	960
50°	151	782	1179
55°	169	907	1383
60°	141	1005	1587
65°	146	1105	1794
70°	77	1057	1778
75°	34	988	1499
80°	0	812	863
85°	0	101	101



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2.0	0.0	0.0
10°-20°	6.3	0.1	0.1
20°-30°	13.9	0.3	0.2
30°-40°	25.4	0.6	0.4
40°-50°	37.1	0.8	0.6
50°-60°	48.3	1.0	0.8
60°-70°	47.2	1.0	0.8
70°-80°	26.9	0.6	0.5
80°-90°	4.6	0.1	0.1
90°-100°	152.5	3.3	2.6
100°-110°	386.7	8.4	6.7
110°-120°	572.0	12.4	9.9
120°-130°	707.8	15.4	12.2
130°-140°	770.8	16.7	13.3
140°-150°	706.7	15.3	12.2
150°-160°	590.6	12.8	10.2
160°-170°	380.8	8.3	6.6
170°-180°	124.6	2.7	2.1
0°-30°	22.1	0.5	0.4
0°-40°	47.6	1.0	0.8
0°-60°	132.9	2.9	2.3
0°-90°	211.6	4.6	3.6
90°-120°	1111.3	24.1	19.2
90°-150°	3296.6	71.6	56.8
90°-180°	4393.0	95.4	75.7
0°-180°	4604.2	100.0	79.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20	20	20	20	20	
5°	21	21	21	21	19	2
15°	20	21	22	22	22	6
25°	20	20	29	38	40	9
35°	17	22	43	59	62	11
45°	12	24	50	71	77	10
55°	11	27	59	83	90	9
65°	7	22	53	76	86	6
75°	1	12	29	39	44	1
85°	0	2	1	1	1	0
90°	0	5	3	1	0	6
95°	43	109	167	188	197	50
105°	181	282	385	457	483	195
115°	384	512	606	673	694	377
125°	598	730	825	886	904	531
135°	822	969	1042	1104	1120	622
145°	959	1096	1138	1176	1189	603
155°	1119	1247	1293	1313	1319	521
165°	1217	1284	1354	1376	1383	348
175°	1257	1264	1284	1303	1311	120
180°	1265	1265	1265	1265	1265	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20	20	20	20	20
5°	21	21	21	21	19
10°	21	21	21	20	19
15°	20	21	22	22	22
20°	20	20	24	30	31
25°	20	20	29	38	40
30°	19	22	36	49	50
35°	17	22	43	59	62
40°	15	24	46	65	69
45°	12	24	50	71	77
50°	11	25	57	78	86
55°	11	27	59	83	90
60°	8	25	57	82	90
65°	7	22	53	76	86
70°	3	17	41	60	69
75°	1	12	29	39	44
80°	0	6	16	19	17
85°	0	2	1	1	1
90°	0	5	3	1	0
95°	43	109	167	188	197
100°	101	186	297	348	365
105°	181	282	385	457	483
110°	276	395	491	564	588
115°	384	512	606	673	694
120°	481	607	699	759	779
125°	598	730	825	886	904
130°	699	834	916	976	992
135°	822	969	1042	1104	1120
140°	877	1018	1068	1118	1134
145°	959	1096	1138	1176	1189
150°	1056	1196	1237	1264	1274
155°	1119	1247	1293	1313	1319
160°	1222	1333	1395	1417	1422
165°	1217	1284	1354	1376	1383
170°	1265	1298	1360	1394	1404
175°	1257	1264	1284	1303	1311
180°	1265	1265	1265	1265	1265

(END OF REPORT)