

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. 12472.0

Luminaire Tested: **S801 BSL 2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12472.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S801 BSL 2T5  
Description: 4'BIDIRECTIONAL PENDANT MNT LUMINAIRE  
SEMI-SPEC SIDE REFLECTORS w/OPEN CENTER DOWN & OPEN TOP  
Light Source: -  
FP28T5/835  
Ballast/Driver: -  
UNIVERSAL BALLAST #B228PUNV-C      WATTS=66

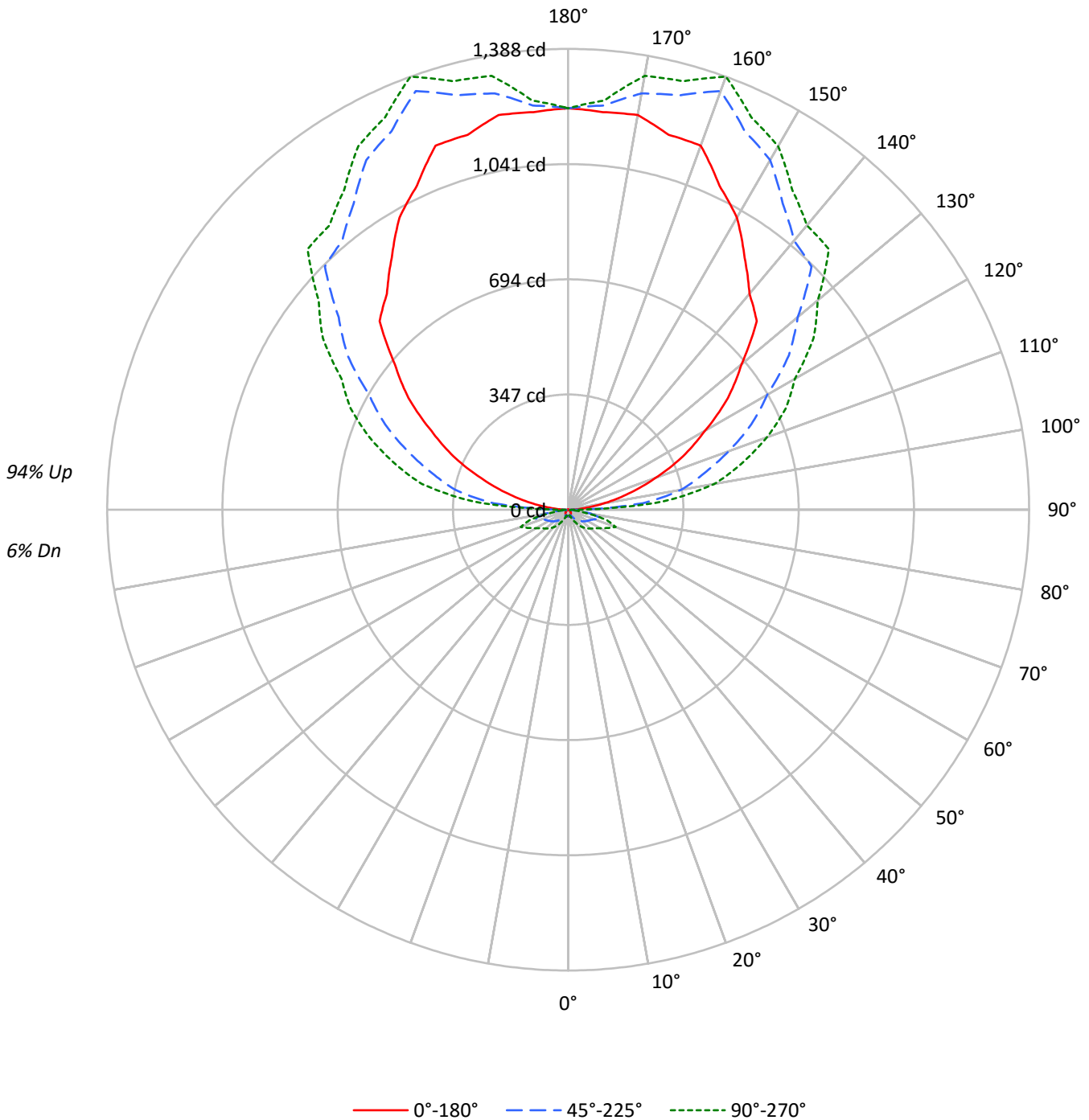
**Summary**

Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4704.8 lumens  
Efficiency: 81.1%  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 4.24 / 3.3  
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4' x H: 0.01')  
CIE Type: Indirect

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				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	78	78	78	78	68	68	68	68	48	48	48	30	30	30	13	13	13	5
1	71	68	65	62	61	58	56	54	41	40	38	25	25	24	11	10	10	4
2	64	59	54	50	55	51	47	43	36	33	31	22	20	19	9	9	8	2
3	58	51	46	41	50	44	40	36	31	28	26	19	17	16	8	7	6	2
4	53	45	39	34	46	39	34	30	27	24	22	17	15	13	7	6	5	1
5	49	40	33	29	42	34	29	25	24	21	18	15	13	11	6	5	4	1
6	45	35	29	25	38	31	25	22	22	18	16	13	11	10	5	4	4	1
7	41	32	26	21	35	27	22	19	19	16	13	12	10	8	5	4	3	1
8	38	28	23	18	32	25	20	16	17	14	12	11	9	7	4	3	3	1
9	35	26	20	16	30	22	17	14	16	13	10	10	8	6	4	3	2	0
10	33	23	18	14	28	20	16	12	14	11	9	9	7	6	4	3	2	0

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

	0°	45°	90°
0°	67	67	67
5°	67	67	64
10°	68	65	58
15°	73	69	69
20°	68	60	82
25°	63	77	129
30°	62	92	169
35°	57	142	240
40°	57	174	299
45°	57	221	375
50°	47	278	453
55°	47	352	558
60°	40	442	729
65°	47	567	1005
70°	39	801	1442
75°	13	1285	1474
80°	19	1258	848
85°	0	206	202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1.9	0.0	0.0
10°-20°	5.6	0.1	0.1
20°-30°	11.0	0.2	0.2
30°-40°	21.6	0.5	0.4
40°-50°	34.9	0.7	0.6
50°-60°	50.7	1.1	0.9
60°-70°	71.0	1.5	1.2
70°-80°	76.3	1.6	1.3
80°-90°	19.1	0.4	0.3
90°-100°	197.2	4.2	3.4
100°-110°	424.5	9.0	7.3
110°-120°	581.4	12.4	10.0
120°-130°	701.2	14.9	12.1
130°-140°	760.9	16.2	13.1
140°-150°	693.0	14.7	11.9
150°-160°	572.8	12.2	9.9
160°-170°	363.6	7.7	6.3
170°-180°	118.2	2.5	2.0
0°-30°	18.4	0.4	0.3
0°-40°	40.0	0.9	0.7
0°-60°	125.6	2.7	2.2
0°-90°	292.0	6.2	5.0
90°-120°	1203.1	25.6	20.7
90°-150°	3358.2	71.4	57.9
90°-180°	4413.0	93.8	76.1
0°-180°	4704.8	100.0	81.1

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20	20	20	20	20	
5°	20	20	20	20	19	2
15°	21	20	20	20	20	6
25°	17	17	21	31	35	8
35°	14	14	35	54	59	9
45°	12	17	47	71	80	9
55°	8	23	61	89	97	7
65°	6	29	73	114	130	5
75°	1	31	103	131	119	2
85°	0	21	6	6	6	0
90°	0	4	8	10	12	6
95°	43	141	225	271	289	52
105°	188	294	423	515	542	201
115°	382	508	608	692	723	376
125°	587	728	811	876	902	521
135°	803	963	1036	1091	1110	606
145°	926	1059	1126	1164	1176	582
155°	1077	1183	1258	1293	1304	500
165°	1169	1214	1292	1327	1336	333
175°	1202	1207	1222	1233	1237	115
180°	1209	1209	1209	1209	1209	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20	20	20	20	20
5°	20	20	20	20	19
10°	20	20	19	19	17
15°	21	20	20	20	20
20°	19	19	17	20	23
25°	17	17	21	31	35
30°	16	16	24	40	44
35°	14	14	35	54	59
40°	13	14	40	63	69
45°	12	17	47	71	80
50°	9	19	54	78	88
55°	8	23	61	89	97
60°	6	27	67	99	111
65°	6	29	73	114	130
70°	4	29	84	133	152
75°	1	31	103	131	119
80°	1	36	69	52	47
85°	0	21	6	6	6
90°	0	4	8	10	12
95°	43	141	225	271	289
100°	107	213	346	426	447
105°	188	294	423	515	542
110°	280	396	513	605	636
115°	382	508	608	692	723
120°	476	608	692	762	788
125°	587	728	811	876	902
130°	681	826	902	959	981
135°	803	963	1036	1091	1110
140°	849	992	1058	1102	1118
145°	926	1059	1126	1164	1176
150°	1016	1146	1216	1252	1264
155°	1077	1183	1258	1293	1304
160°	1167	1248	1342	1376	1388
165°	1169	1214	1292	1327	1336
170°	1207	1232	1273	1312	1327
175°	1202	1207	1222	1233	1237
180°	1209	1209	1209	1209	1209

(END OF REPORT)