

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P412365

Luminaire Tested: **22PD-25-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-25-PB1-L850
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

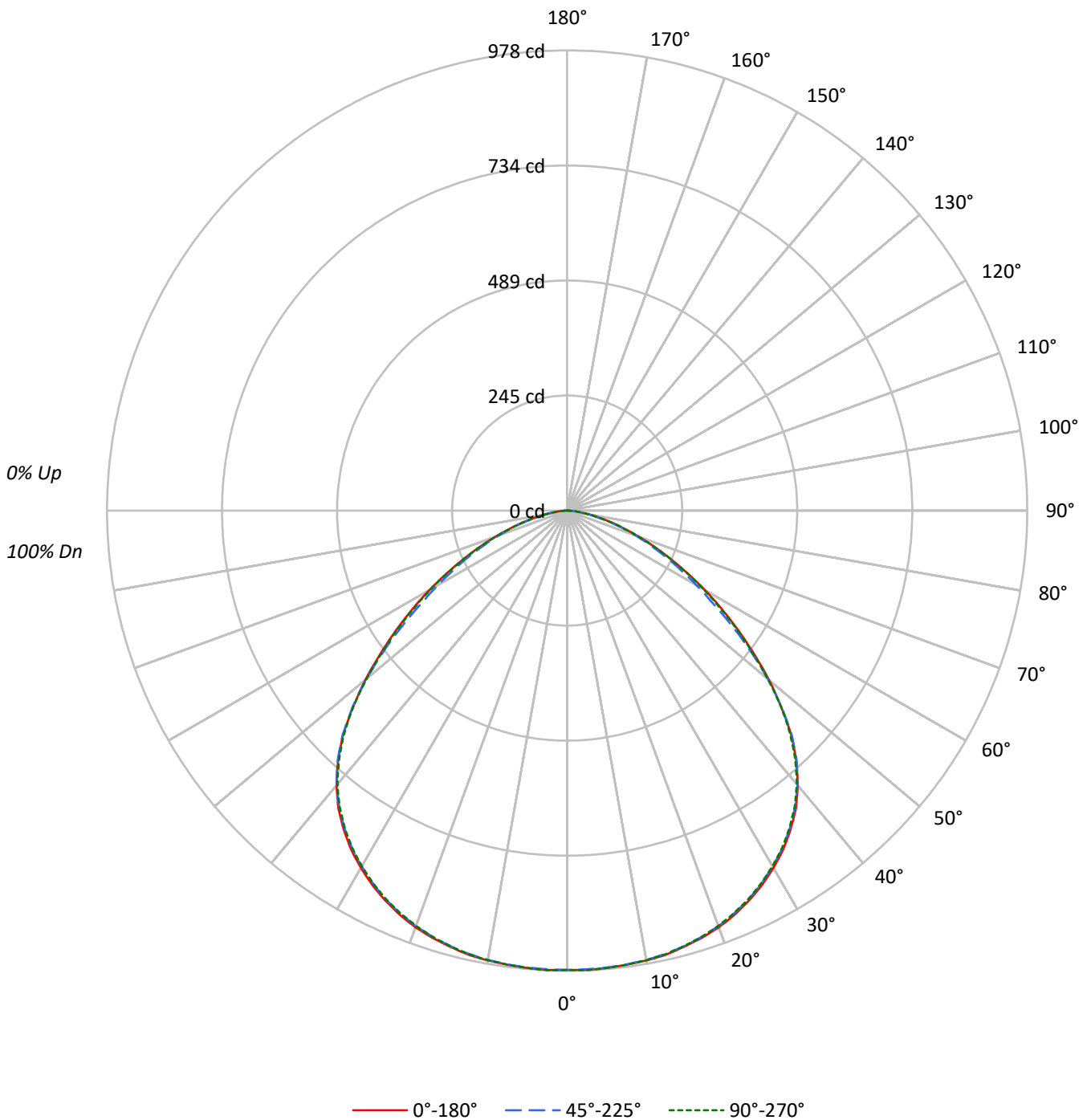
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2563.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2627	2627	2627
5°	2635	2633	2636
10°	2653	2649	2651
15°	2674	2670	2670
20°	2699	2691	2689
25°	2716	2708	2705
30°	2725	2714	2712
35°	2719	2711	2706
40°	2679	2675	2667
45°	2561	2569	2549
50°	2344	2331	2329
55°	2083	2010	2069
60°	1816	1706	1805
65°	1540	1457	1532
70°	1273	1221	1261
75°	1029	964	989
80°	744	721	716
85°	485	485	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.6
10°-20°	270.9	10.6
20°-30°	420.4	16.4
30°-40°	515.5	20.1
40°-50°	515.3	20.1
50°-60°	390.3	15.2
60°-70°	234.1	9.1
70°-80°	103.1	4.0
80°-90°	20.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	784.2	30.6
0°-40°	1299.7	50.7
0°-60°	2205.3	86.0
0°-90°	2563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	976	974	975	974	976	93
15°	960	959	958	958	958	271
25°	915	913	912	910	911	422
35°	828	827	825	825	824	517
45°	673	674	675	673	670	515
55°	444	434	428	434	441	398
65°	242	233	229	233	241	242
75°	99	97	93	94	95	106
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.2	976.2	976.2	976.2	976.2
2.5°	977.1	975.6	975.9	975.9	977.8
5°	975.6	974.4	974.7	974.4	975.9
7.5°	973.5	972.3	972.6	972.3	973.2
10°	970.8	969.6	969.6	969.0	970.2
12.5°	967.2	965.7	965.1	964.8	965.7
15°	959.9	959.0	958.4	957.8	958.4
17.5°	952.1	950.6	950.0	948.8	950.0
20°	942.4	940.3	939.7	938.8	939.1
22.5°	929.8	927.9	927.0	925.5	926.1
25°	914.7	912.9	911.9	910.4	911.0
27.5°	897.2	895.9	893.8	892.6	892.9
30°	876.9	875.7	873.3	872.7	872.7
32.5°	854.6	853.1	851.0	850.4	850.1
35°	827.7	827.4	825.3	824.7	823.8
37.5°	798.4	797.8	795.4	794.8	793.9
40°	762.5	761.9	761.6	760.4	759.2
42.5°	720.9	721.8	722.4	720.0	717.5
45°	672.9	673.8	675.0	673.2	669.8
47.5°	616.7	620.3	618.5	619.7	616.4
50°	560.0	560.0	556.9	558.2	556.3
52.5°	500.5	495.7	492.0	494.5	496.9
55°	444.0	434.4	428.4	434.1	441.0
57.5°	390.0	378.5	367.4	376.4	384.9
60°	337.5	324.2	317.0	323.6	335.4
62.5°	287.7	278.0	270.8	275.9	285.9
65°	241.8	233.3	228.8	232.7	240.6
67.5°	199.8	194.1	189.6	192.9	198.9
70°	161.8	160.3	155.2	156.7	160.3
72.5°	127.1	126.8	122.3	123.5	125.6
75°	99.0	96.9	92.7	94.2	95.1
77.5°	70.0	70.9	67.0	67.9	67.9
80°	48.0	49.5	46.5	45.9	46.2
82.5°	30.5	30.5	30.2	29.9	29.0
85°	15.7	16.3	15.7	15.1	15.1
87.5°	6.0	6.0	6.0	5.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)