

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: P412581

Luminaire Tested: **24PD-80-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-80-PB1-L850
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

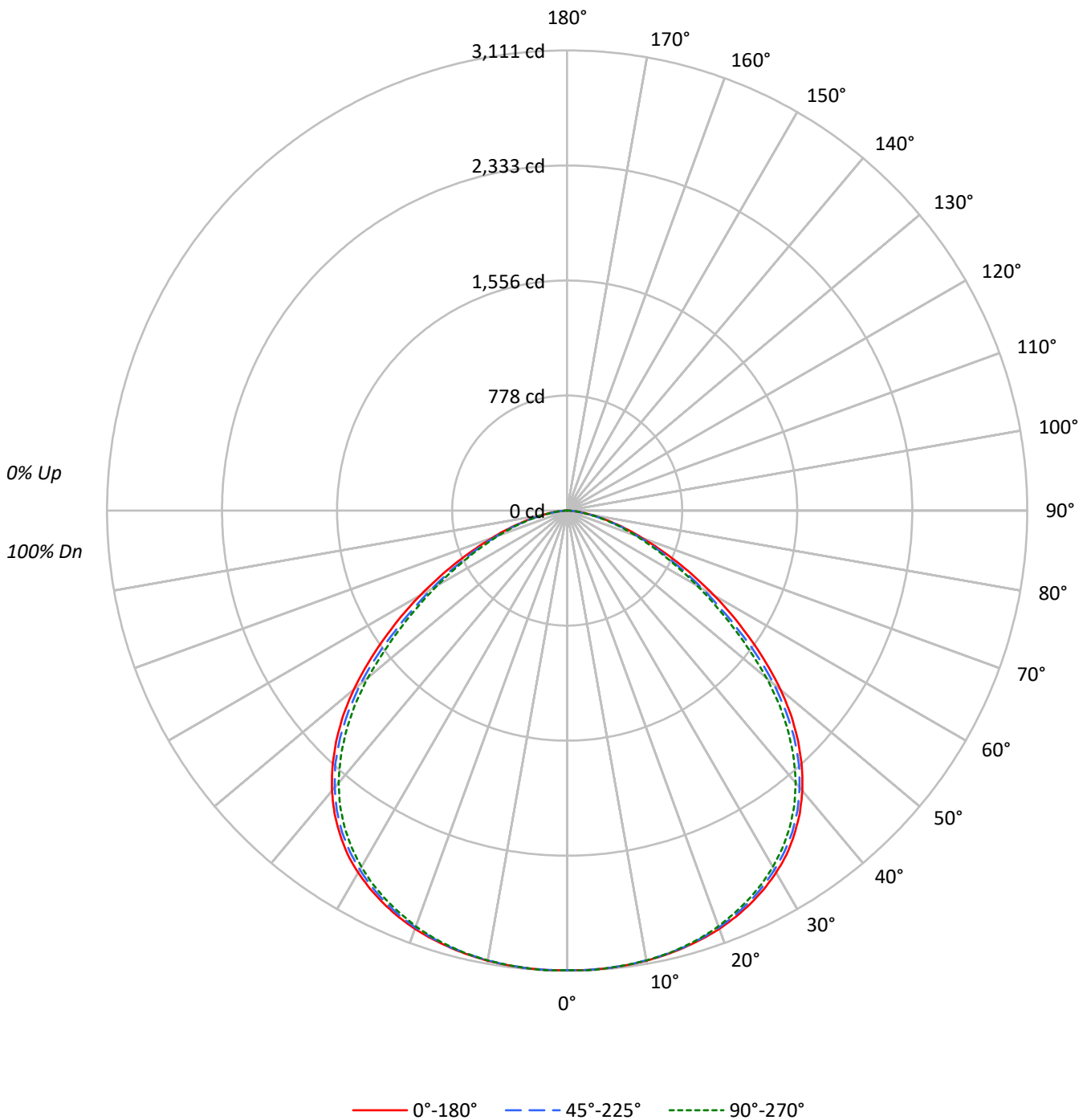
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8268.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4181	4181	4181
5°	4195	4195	4195
10°	4223	4218	4219
15°	4260	4255	4251
20°	4309	4295	4283
25°	4354	4332	4307
30°	4391	4355	4322
35°	4396	4358	4304
40°	4345	4295	4222
45°	4204	4128	4021
50°	3942	3820	3680
55°	3543	3332	3195
60°	3085	2839	2730
65°	2596	2402	2297
70°	2116	2009	1928
75°	1695	1635	1567
80°	1302	1199	1168
85°	814	789	789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	3.6
10°-20°	863.5	10.4
20°-30°	1345.2	16.3
30°-40°	1654.8	20.0
40°-50°	1662.2	20.1
50°-60°	1281.1	15.5
60°-70°	760.5	9.2
70°-80°	338.6	4.1
80°-90°	66.1	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°	2504.5	30.3
0°-40°	4159.4	50.3
0°-60°	7102.7	85.9
0°-90°	8268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3106	3106	3106	3102	3106	296
15°	3059	3059	3054	3050	3052	865
25°	2933	2932	2918	2905	2901	1352
35°	2676	2672	2653	2631	2620	1671
45°	2210	2204	2169	2133	2113	1696
55°	1510	1482	1421	1378	1362	1351
65°	815	780	754	726	721	815
75°	326	320	315	304	301	353
85°	53	50	51	49	51	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3107.2	3107.2	3107.2	3107.2	3107.2
2.5°	3108.9	3108.0	3108.0	3104.7	3111.3
5°	3105.6	3106.4	3105.6	3102.3	3105.6
7.5°	3099.0	3099.8	3098.2	3094.9	3098.2
10°	3090.7	3090.7	3087.5	3085.8	3088.3
12.5°	3076.7	3076.7	3073.5	3071.0	3073.5
15°	3058.6	3058.6	3054.5	3049.6	3052.0
17.5°	3036.4	3036.4	3029.8	3023.2	3024.9
20°	3009.2	3008.4	2999.3	2990.3	2991.1
22.5°	2974.6	2973.8	2962.3	2951.6	2948.3
25°	2932.6	2931.8	2917.8	2904.6	2901.3
27.5°	2884.0	2880.7	2865.1	2850.3	2847.0
30°	2826.4	2823.9	2803.3	2788.5	2781.9
32.5°	2759.7	2753.1	2734.2	2716.0	2707.0
35°	2676.5	2672.4	2653.4	2631.2	2620.5
37.5°	2582.6	2578.5	2557.9	2533.2	2520.9
40°	2473.9	2470.6	2445.1	2419.6	2403.9
42.5°	2348.7	2346.3	2319.1	2283.7	2267.2
45°	2209.6	2203.8	2169.2	2133.0	2113.2
47.5°	2054.7	2044.9	2002.9	1968.3	1946.9
50°	1883.4	1870.3	1825.0	1780.5	1758.3
52.5°	1698.1	1675.1	1628.1	1577.1	1555.7
55°	1510.4	1481.6	1420.6	1377.8	1362.1
57.5°	1326.7	1284.7	1227.1	1196.6	1181.0
60°	1146.4	1100.3	1055.0	1025.3	1014.6
62.5°	974.2	935.5	896.8	867.2	860.6
65°	815.3	779.9	754.4	725.5	721.4
67.5°	667.1	650.6	627.5	602.8	599.5
70°	537.8	531.2	510.6	495.8	490.0
72.5°	429.1	422.5	407.7	396.9	395.3
75°	326.1	319.5	314.6	303.9	301.4
77.5°	232.2	233.1	228.9	223.2	224.8
80°	168.0	158.1	154.8	151.5	150.7
82.5°	102.9	97.2	94.7	93.9	95.5
85°	52.7	50.2	51.1	48.6	51.1
87.5°	18.1	18.1	18.9	18.1	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)