

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: P412595

Luminaire Tested: **24PD-85-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412595
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-85-PB1-L950
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

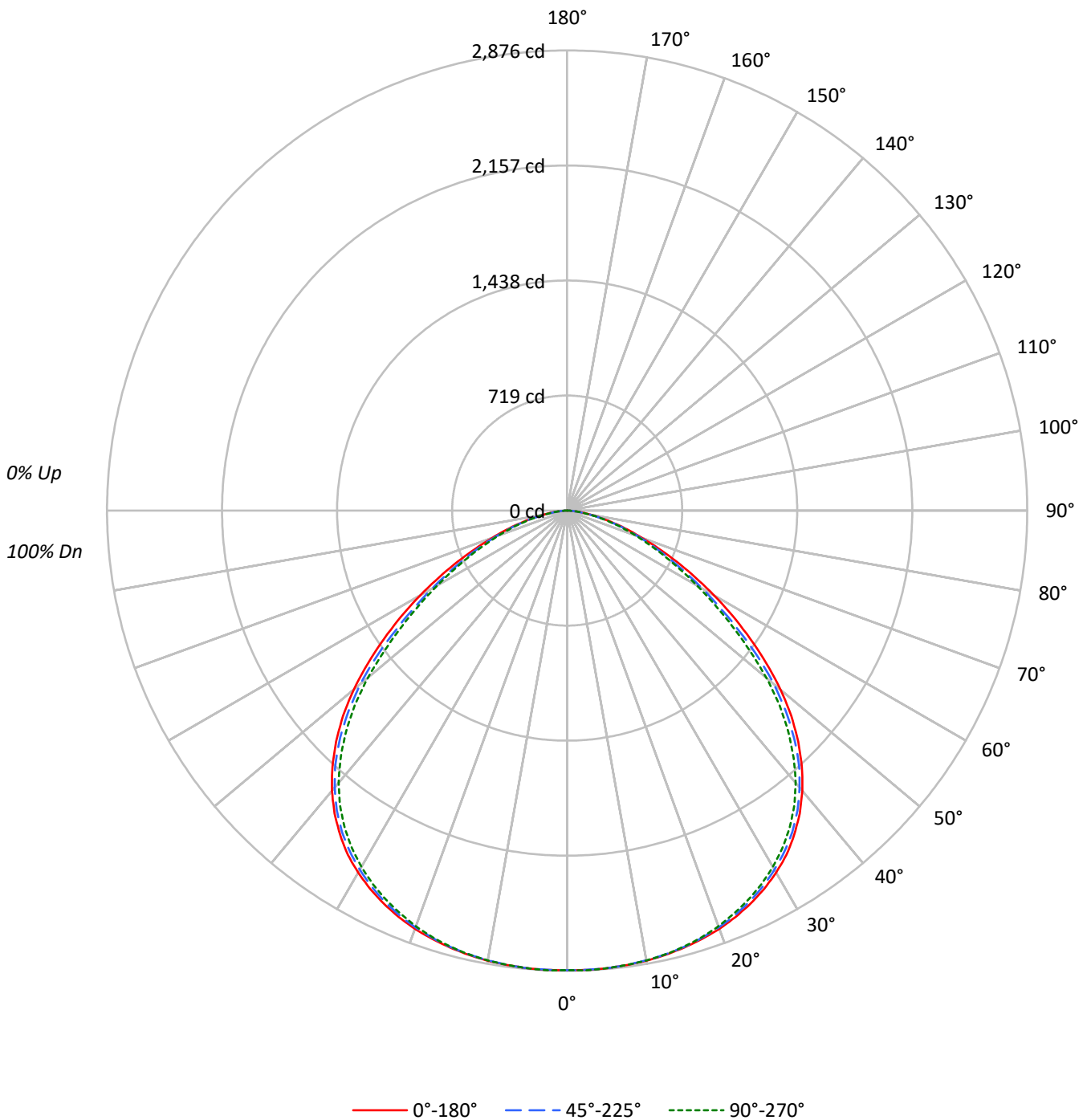
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7643.0 lumens
Efficiency: N/A
Efficacy: 118.5 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): 64.5
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°	3865	3865	3865
5°	3877	3877	3877
10°	3904	3899	3900
15°	3938	3933	3930
20°	3983	3970	3959
25°	4025	4004	3982
30°	4059	4026	3995
35°	4064	4029	3979
40°	4017	3970	3903
45°	3886	3816	3717
50°	3644	3531	3402
55°	3275	3080	2954
60°	2852	2624	2524
65°	2400	2220	2123
70°	1956	1857	1782
75°	1567	1512	1448
80°	1203	1109	1079
85°	752	729	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	3.6
10°-20°	798.2	10.4
20°-30°	1243.5	16.3
30°-40°	1529.8	20.0
40°-50°	1536.6	20.1
50°-60°	1184.3	15.5
60°-70°	703.0	9.2
70°-80°	313.0	4.1
80°-90°	61.1	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°	2315.2	30.3
0°-40°	3845.0	50.3
0°-60°	6565.8	85.9
0°-90°	7643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2871	2872	2871	2868	2871	274
15°	2827	2827	2824	2819	2821	800
25°	2711	2710	2697	2685	2682	1250
35°	2474	2470	2453	2432	2422	1545
45°	2042	2037	2005	1972	1954	1568
55°	1396	1370	1313	1274	1259	1249
65°	754	721	697	671	667	753
75°	302	295	291	281	279	326
85°	49	46	47	45	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2872.3	2872.3	2872.3	2872.3	2872.3
2.5°	2873.9	2873.1	2873.1	2870.1	2876.1
5°	2870.8	2871.6	2870.8	2867.8	2870.8
7.5°	2864.7	2865.5	2864.0	2860.9	2864.0
10°	2857.1	2857.1	2854.1	2852.5	2854.8
12.5°	2844.2	2844.2	2841.1	2838.8	2841.1
15°	2827.4	2827.4	2823.6	2819.0	2821.3
17.5°	2806.9	2806.9	2800.8	2794.7	2796.2
20°	2781.7	2781.0	2772.6	2764.2	2765.0
22.5°	2749.8	2749.0	2738.4	2728.5	2725.4
25°	2710.9	2710.2	2697.2	2685.1	2682.0
27.5°	2666.0	2663.0	2648.5	2634.8	2631.8
30°	2612.7	2610.5	2591.4	2577.7	2571.6
32.5°	2551.1	2545.0	2527.5	2510.7	2502.4
35°	2474.2	2470.4	2452.9	2432.3	2422.4
37.5°	2387.4	2383.6	2364.6	2341.7	2330.3
40°	2286.9	2283.9	2260.3	2236.7	2222.2
42.5°	2171.2	2168.9	2143.8	2111.0	2095.8
45°	2042.5	2037.2	2005.2	1971.7	1953.5
47.5°	1899.4	1890.3	1851.5	1819.5	1799.7
50°	1741.1	1728.9	1687.0	1645.9	1625.3
52.5°	1569.8	1548.5	1505.1	1457.9	1438.1
55°	1396.2	1369.6	1313.2	1273.6	1259.2
57.5°	1226.4	1187.6	1134.3	1106.2	1091.7
60°	1059.7	1017.1	975.2	947.8	937.9
62.5°	900.6	864.8	829.0	801.6	795.5
65°	753.7	720.9	697.3	670.7	666.9
67.5°	616.6	601.4	580.1	557.3	554.2
70°	497.1	491.0	472.0	458.3	453.0
72.5°	396.6	390.5	376.8	366.9	365.4
75°	301.5	295.4	290.8	280.9	278.6
77.5°	214.7	215.4	211.6	206.3	207.8
80°	155.3	146.2	143.1	140.1	139.3
82.5°	95.2	89.8	87.5	86.8	88.3
85°	48.7	46.4	47.2	44.9	47.2
87.5°	16.7	16.7	17.5	16.7	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)