

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: P412571

Luminaire Tested: **24PD-75-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412571
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-75-PB1-L840
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

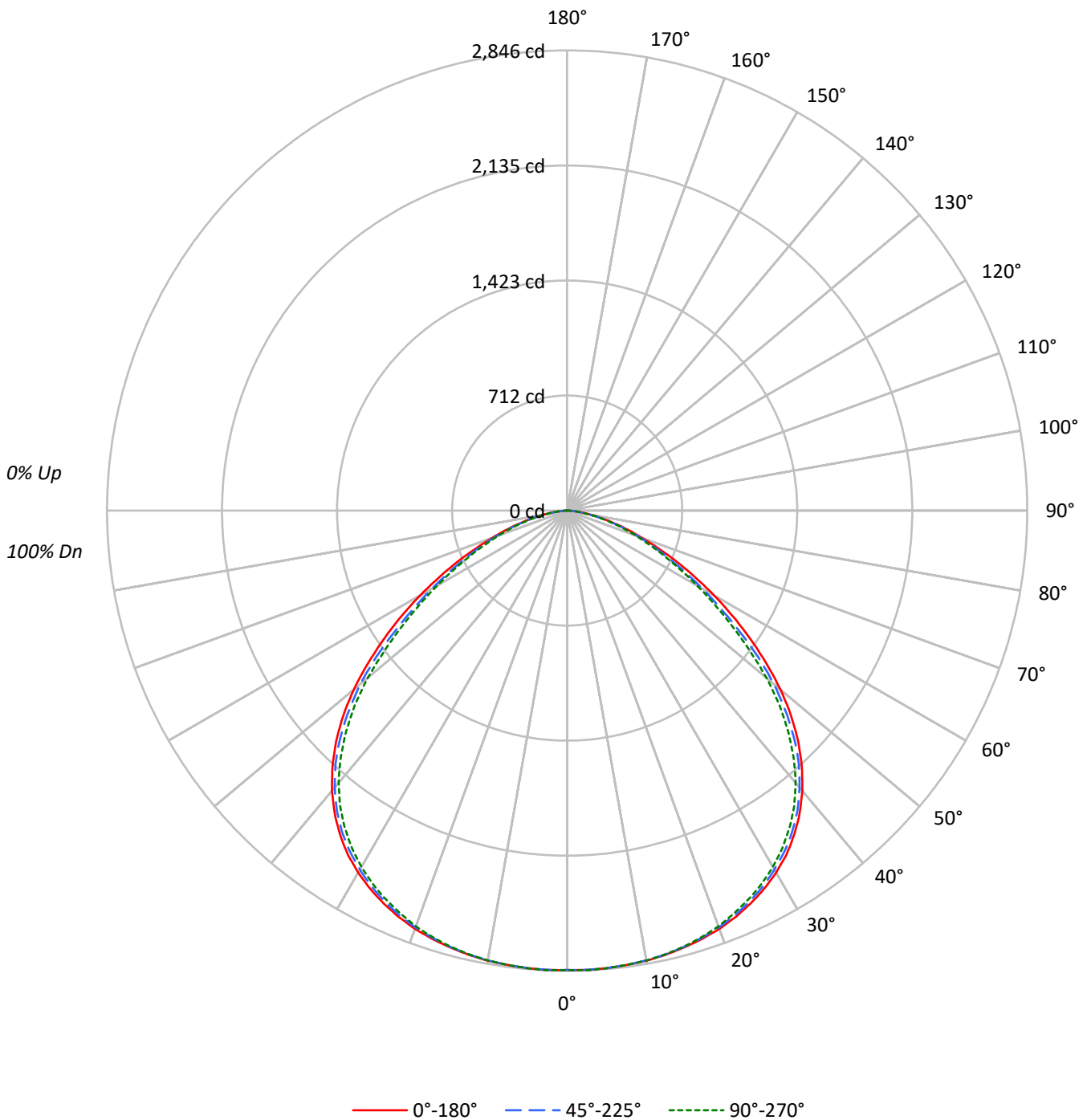
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7562.0 lumens
Efficiency: N/A
Efficacy: 134.3 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): 56.3
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°	3824	3824	3824
5°	3836	3836	3836
10°	3862	3858	3859
15°	3897	3891	3888
20°	3941	3928	3917
25°	3982	3962	3939
30°	4016	3984	3953
35°	4021	3986	3937
40°	3974	3928	3862
45°	3845	3775	3678
50°	3606	3494	3366
55°	3240	3048	2922
60°	2821	2597	2497
65°	2374	2196	2101
70°	1935	1837	1763
75°	1551	1496	1433
80°	1191	1097	1068
85°	744	721	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	3.6
10°-20°	789.7	10.4
20°-30°	1230.3	16.3
30°-40°	1513.5	20.0
40°-50°	1520.3	20.1
50°-60°	1171.7	15.5
60°-70°	695.6	9.2
70°-80°	309.7	4.1
80°-90°	60.5	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°	2290.7	30.3
0°-40°	3804.2	50.3
0°-60°	6496.2	85.9
0°-90°	7562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2842	2842	2842	2842	2842	
5°	2840	2841	2840	2837	2840	271
15°	2798	2798	2794	2789	2791	791
25°	2682	2682	2669	2657	2654	1237
35°	2448	2444	2427	2406	2397	1529
45°	2021	2016	1984	1951	1933	1551
55°	1381	1355	1299	1260	1246	1235
65°	746	713	690	664	660	745
75°	298	292	288	278	276	323
85°	48	46	47	44	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2841.9	2841.9	2841.9	2841.9	2841.9
2.5°	2843.4	2842.6	2842.6	2839.6	2845.7
5°	2840.4	2841.1	2840.4	2837.4	2840.4
7.5°	2834.4	2835.1	2833.6	2830.6	2833.6
10°	2826.8	2826.8	2823.8	2822.3	2824.6
12.5°	2814.0	2814.0	2811.0	2808.8	2811.0
15°	2797.5	2797.5	2793.7	2789.2	2791.4
17.5°	2777.1	2777.1	2771.1	2765.1	2766.6
20°	2752.3	2751.5	2743.2	2734.9	2735.7
22.5°	2720.6	2719.9	2709.3	2699.5	2696.5
25°	2682.2	2681.5	2668.7	2656.6	2653.6
27.5°	2637.8	2634.8	2620.4	2606.9	2603.9
30°	2585.0	2582.8	2564.0	2550.4	2544.4
32.5°	2524.0	2518.0	2500.7	2484.1	2475.8
35°	2448.0	2444.2	2426.9	2406.5	2396.7
37.5°	2362.1	2358.3	2339.5	2316.9	2305.6
40°	2262.7	2259.7	2236.3	2213.0	2198.6
42.5°	2148.2	2145.9	2121.1	2088.7	2073.6
45°	2020.9	2015.6	1984.0	1950.8	1932.8
47.5°	1879.3	1870.2	1831.8	1800.2	1780.6
50°	1722.6	1710.6	1669.1	1628.5	1608.1
52.5°	1553.1	1532.0	1489.1	1442.4	1422.8
55°	1381.4	1355.0	1299.3	1260.1	1245.8
57.5°	1213.4	1175.0	1122.3	1094.4	1080.1
60°	1048.5	1006.3	964.9	937.8	928.0
62.5°	891.1	855.7	820.3	793.1	787.1
65°	745.7	713.3	689.9	663.6	659.8
67.5°	610.1	595.0	574.0	551.4	548.3
70°	491.9	485.8	467.0	453.4	448.2
72.5°	392.4	386.4	372.8	363.1	361.5
75°	298.3	292.2	287.7	277.9	275.7
77.5°	212.4	213.2	209.4	204.1	205.6
80°	153.7	144.6	141.6	138.6	137.8
82.5°	94.2	88.9	86.6	85.9	87.4
85°	48.2	45.9	46.7	44.4	46.7
87.5°	16.6	16.6	17.3	16.6	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)