

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: P412580

Luminaire Tested: **24PD-80-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412580
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-L840
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

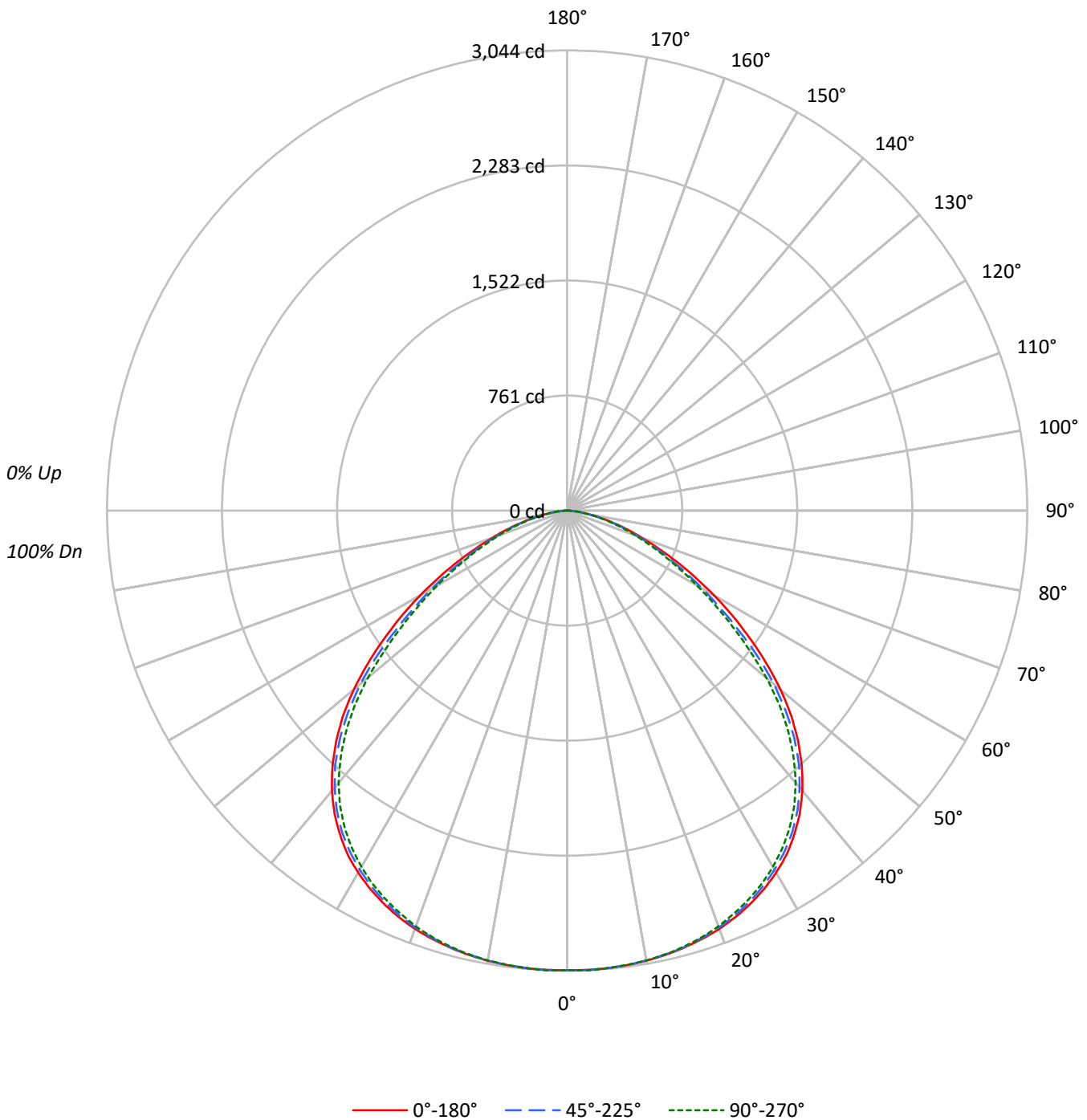
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8090.0 lumens
Efficiency: N/A
Efficacy: 134.2 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°	4091	4091	4091
5°	4104	4104	4104
10°	4132	4127	4129
15°	4169	4163	4160
20°	4216	4202	4191
25°	4260	4238	4215
30°	4297	4262	4229
35°	4302	4265	4212
40°	4252	4202	4131
45°	4114	4039	3934
50°	3858	3738	3601
55°	3467	3261	3126
60°	3018	2778	2672
65°	2540	2350	2247
70°	2070	1965	1886
75°	1659	1600	1533
80°	1274	1174	1143
85°	797	772	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.6
10°-20°	844.9	10.4
20°-30°	1316.2	16.3
30°-40°	1619.2	20.0
40°-50°	1626.4	20.1
50°-60°	1253.5	15.5
60°-70°	744.2	9.2
70°-80°	331.3	4.1
80°-90°	64.7	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°	2450.6	30.3
0°-40°	4069.8	50.3
0°-60°	6949.8	85.9
0°-90°	8090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3040	3040	3040	3040	3040	
5°	3039	3040	3039	3036	3039	290
15°	2993	2993	2989	2984	2986	846
25°	2870	2869	2855	2842	2839	1323
35°	2619	2615	2596	2575	2564	1635
45°	2162	2156	2122	2087	2068	1659
55°	1478	1450	1390	1348	1333	1322
65°	798	763	738	710	706	797
75°	319	313	308	297	295	345
85°	52	49	50	48	50	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3040.3	3040.3	3040.3	3040.3	3040.3
2.5°	3041.9	3041.1	3041.1	3037.9	3044.4
5°	3038.7	3039.5	3038.7	3035.5	3038.7
7.5°	3032.3	3033.1	3031.5	3028.2	3031.5
10°	3024.2	3024.2	3021.0	3019.4	3021.8
12.5°	3010.5	3010.5	3007.3	3004.9	3007.3
15°	2992.8	2992.8	2988.8	2983.9	2986.3
17.5°	2971.0	2971.0	2964.6	2958.1	2959.7
20°	2944.4	2943.6	2934.8	2925.9	2926.7
22.5°	2910.6	2909.8	2898.5	2888.0	2884.8
25°	2869.5	2868.7	2855.0	2842.1	2838.9
27.5°	2822.0	2818.7	2803.4	2788.9	2785.7
30°	2765.5	2763.1	2743.0	2728.5	2722.0
32.5°	2700.3	2693.8	2675.3	2657.6	2648.7
35°	2618.9	2614.9	2596.3	2574.6	2564.1
37.5°	2527.0	2523.0	2502.8	2478.7	2466.6
40°	2420.7	2417.4	2392.5	2367.5	2352.2
42.5°	2298.2	2295.8	2269.2	2234.5	2218.4
45°	2162.0	2156.4	2122.5	2087.1	2067.7
47.5°	2010.5	2000.8	1959.7	1925.9	1904.9
50°	1842.9	1830.0	1785.7	1742.2	1720.4
52.5°	1661.6	1639.0	1593.1	1543.1	1522.2
55°	1477.9	1449.7	1390.0	1348.1	1332.8
57.5°	1298.2	1257.1	1200.7	1170.8	1155.5
60°	1121.7	1076.6	1032.2	1003.2	992.8
62.5°	953.3	915.4	877.5	848.5	842.1
65°	797.8	763.1	738.1	709.9	705.9
67.5°	652.7	636.6	614.0	589.9	586.6
70°	526.2	519.7	499.6	485.1	479.5
72.5°	419.8	413.4	398.9	388.4	386.8
75°	319.1	312.7	307.8	297.3	294.9
77.5°	227.2	228.0	224.0	218.4	220.0
80°	164.4	154.7	151.5	148.3	147.5
82.5°	100.7	95.1	92.7	91.9	93.5
85°	51.6	49.2	50.0	47.5	50.0
87.5°	17.7	17.7	18.5	17.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)