

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: P412589

Luminaire Tested: **24PD-85-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412589
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-L840
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

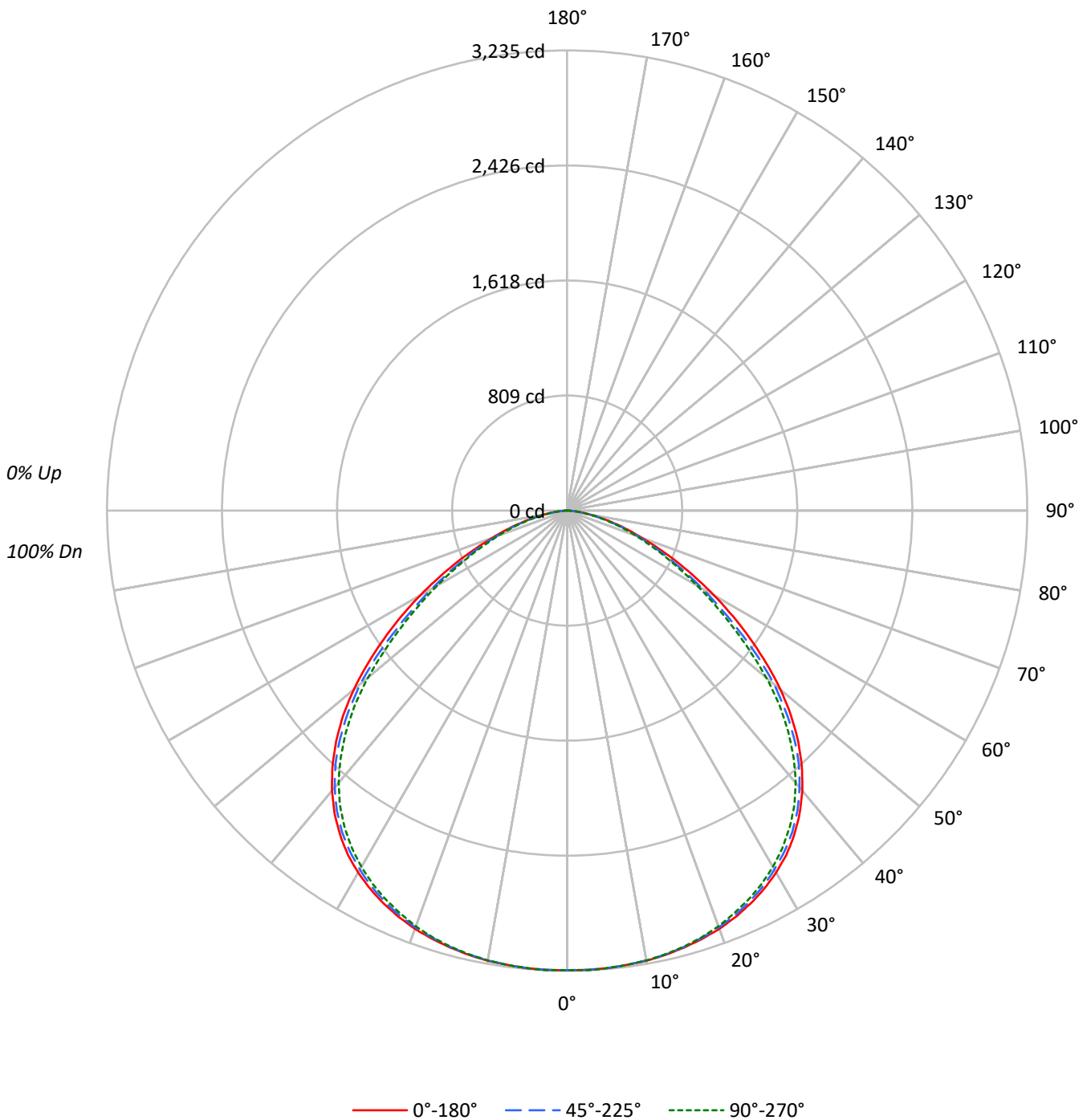
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8596.0 lumens
Efficiency: N/A
Efficacy: 133.3 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): 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°	4347	4347	4347
5°	4361	4361	4361
10°	4390	4386	4387
15°	4430	4424	4420
20°	4480	4465	4453
25°	4526	4504	4478
30°	4565	4528	4494
35°	4571	4531	4475
40°	4518	4465	4390
45°	4371	4291	4180
50°	4099	3972	3826
55°	3684	3465	3322
60°	3207	2951	2839
65°	2699	2497	2388
70°	2199	2089	2004
75°	1763	1700	1629
80°	1354	1247	1214
85°	846	820	820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	3.6
10°-20°	897.7	10.4
20°-30°	1398.6	16.3
30°-40°	1720.5	20.0
40°-50°	1728.2	20.1
50°-60°	1331.9	15.5
60°-70°	790.7	9.2
70°-80°	352.0	4.1
80°-90°	68.7	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°	2603.9	30.3
0°-40°	4324.4	50.3
0°-60°	7384.5	85.9
0°-90°	8596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3229	3230	3229	3225	3229	308
15°	3180	3180	3176	3171	3173	899
25°	3049	3048	3034	3020	3016	1406
35°	2783	2778	2759	2736	2724	1738
45°	2297	2291	2255	2218	2197	1763
55°	1570	1540	1477	1432	1416	1404
65°	848	811	784	754	750	847
75°	339	332	327	316	313	367
85°	55	52	53	50	53	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3230.5	3230.5	3230.5	3230.5	3230.5
2.5°	3232.2	3231.3	3231.3	3227.9	3234.8
5°	3228.8	3229.6	3228.8	3225.3	3228.8
7.5°	3221.9	3222.8	3221.1	3217.6	3221.1
10°	3213.4	3213.4	3209.9	3208.2	3210.8
12.5°	3198.8	3198.8	3195.4	3192.8	3195.4
15°	3180.0	3180.0	3175.7	3170.6	3173.1
17.5°	3156.9	3156.9	3150.0	3143.2	3144.9
20°	3128.6	3127.7	3118.3	3108.9	3109.8
22.5°	3092.6	3091.8	3079.8	3068.7	3065.2
25°	3049.0	3048.1	3033.6	3019.9	3016.4
27.5°	2998.5	2995.0	2978.8	2963.3	2959.9
30°	2938.5	2935.9	2914.5	2899.1	2892.3
32.5°	2869.2	2862.3	2842.6	2823.8	2814.4
35°	2782.7	2778.4	2758.7	2735.6	2724.5
37.5°	2685.1	2680.8	2659.4	2633.7	2620.9
40°	2572.1	2568.6	2542.1	2515.5	2499.3
42.5°	2441.9	2439.3	2411.1	2374.3	2357.2
45°	2297.2	2291.2	2255.3	2217.6	2197.0
47.5°	2136.2	2126.0	2082.3	2046.3	2024.1
50°	1958.2	1944.5	1897.4	1851.1	1828.0
52.5°	1765.5	1741.5	1692.7	1639.6	1617.4
55°	1570.3	1540.3	1477.0	1432.4	1416.2
57.5°	1379.4	1335.7	1275.8	1244.1	1227.8
60°	1191.8	1143.9	1096.8	1066.0	1054.9
62.5°	1012.9	972.7	932.4	901.6	894.7
65°	847.6	810.8	784.3	754.3	750.0
67.5°	693.5	676.4	652.4	626.7	623.3
70°	559.1	552.3	530.9	515.4	509.4
72.5°	446.1	439.2	423.8	412.7	411.0
75°	339.1	332.2	327.1	315.9	313.4
77.5°	241.5	242.3	238.0	232.0	233.7
80°	174.7	164.4	161.0	157.5	156.7
82.5°	107.0	101.0	98.5	97.6	99.3
85°	54.8	52.2	53.1	50.5	53.1
87.5°	18.8	18.8	19.7	18.8	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)