

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: P412932

Luminaire Tested: **24PD-85-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-85-PP3-L850
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

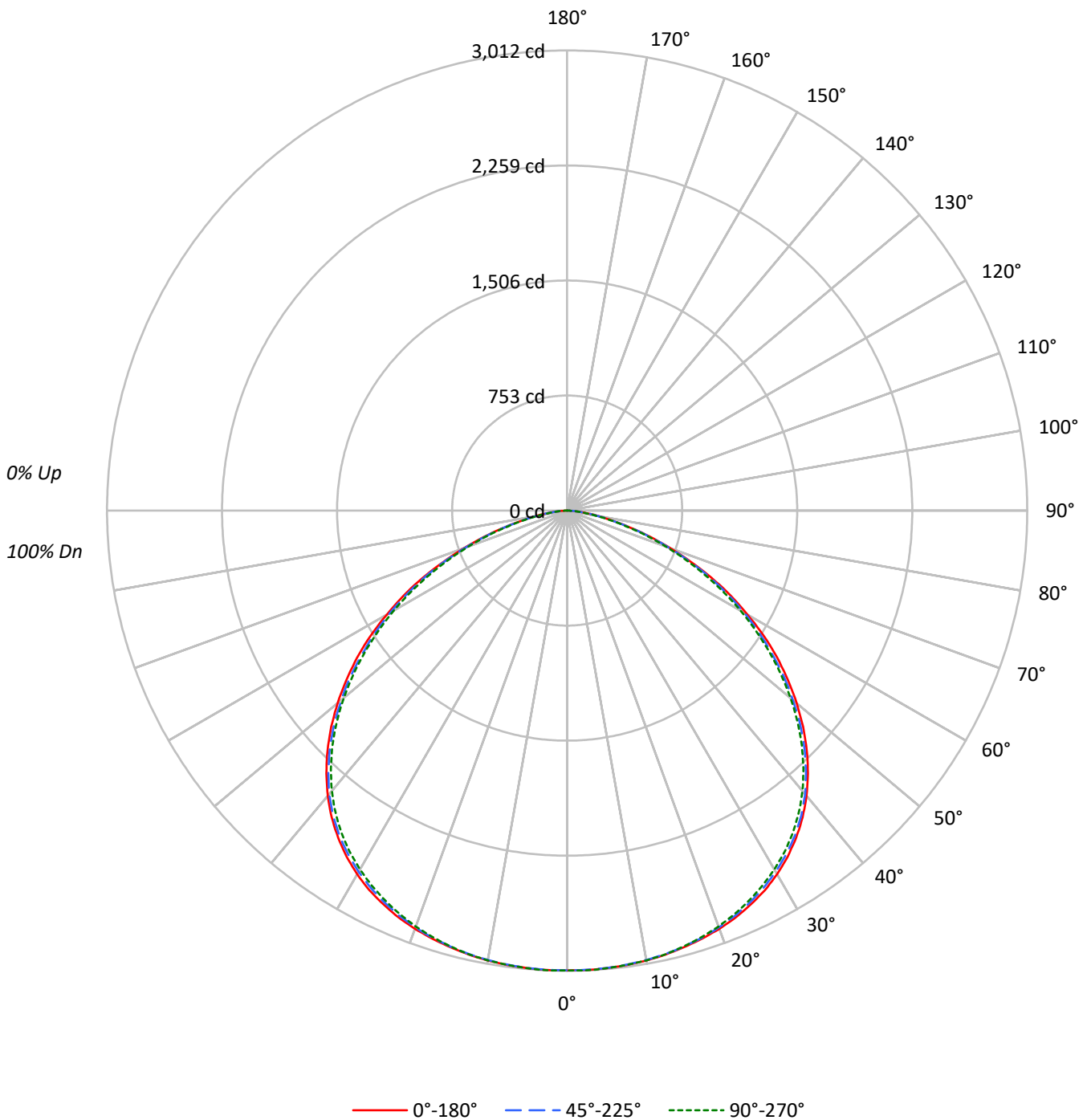
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8757.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74					71				
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63					60				
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54					52				
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47					45				
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41					39				
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36					34				
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32					31				
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27					25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4049	4049	4049
5°	4060	4059	4061
10°	4085	4081	4084
15°	4121	4115	4113
20°	4171	4157	4147
25°	4224	4202	4182
30°	4270	4241	4213
35°	4294	4268	4229
40°	4282	4256	4209
45°	4221	4180	4133
50°	4105	4039	3997
55°	3935	3841	3791
60°	3667	3603	3530
65°	3324	3257	3162
70°	2837	2785	2696
75°	2216	2193	2088
80°	1634	1567	1478
85°	986	986	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	3.3
10°-20°	835.5	9.5
20°-30°	1305.9	14.9
30°-40°	1623.0	18.5
40°-50°	1691.0	19.3
50°-60°	1467.4	16.8
60°-70°	1009.0	11.5
70°-80°	455.3	5.2
80°-90°	83.4	1.0
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°	2427.8	27.7
0°-40°	4050.8	46.3
0°-60°	7209.2	82.3
0°-90°	8757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3006	3007	3005	3002	3007	286
15°	2959	2959	2954	2952	2953	837
25°	2845	2844	2830	2819	2817	1312
35°	2614	2614	2598	2583	2575	1633
45°	2218	2219	2196	2180	2172	1708
55°	1678	1668	1637	1618	1616	1495
65°	1044	1040	1023	998	993	1030
75°	426	428	422	410	402	464
85°	64	63	64	63	60	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3009.5	3009.5	3009.5	3009.5	3009.5
2.5°	3010.4	3010.4	3008.7	3006.0	3012.2
5°	3006.0	3006.9	3005.2	3002.5	3006.9
7.5°	2999.9	3000.8	2998.1	2995.5	2999.0
10°	2990.3	2989.4	2986.8	2985.0	2989.4
12.5°	2976.3	2975.4	2972.8	2971.0	2974.5
15°	2958.8	2958.8	2954.4	2951.8	2952.6
17.5°	2937.8	2937.8	2931.6	2925.5	2927.3
20°	2913.3	2912.4	2903.6	2897.5	2896.6
22.5°	2882.6	2882.6	2870.4	2862.5	2859.9
25°	2845.0	2844.1	2830.1	2818.8	2817.0
27.5°	2802.1	2800.4	2783.7	2772.4	2768.0
30°	2748.7	2747.0	2729.5	2717.2	2712.0
32.5°	2685.7	2688.4	2668.2	2654.2	2649.0
35°	2614.0	2614.0	2598.2	2583.3	2574.6
37.5°	2531.7	2531.7	2516.8	2502.0	2491.5
40°	2438.1	2438.9	2423.2	2404.8	2396.1
42.5°	2333.1	2334.8	2313.8	2298.9	2289.3
45°	2218.4	2219.3	2196.5	2179.9	2172.0
47.5°	2094.2	2092.4	2067.0	2053.0	2045.1
50°	1961.1	1957.6	1929.6	1916.5	1909.5
52.5°	1822.0	1815.0	1790.5	1771.2	1765.1
55°	1677.6	1668.0	1637.3	1618.1	1616.3
57.5°	1527.1	1515.7	1490.3	1471.9	1464.9
60°	1362.6	1359.9	1338.9	1317.1	1311.8
62.5°	1208.5	1200.7	1182.3	1156.0	1153.4
65°	1044.0	1039.6	1023.0	998.5	993.3
67.5°	874.2	878.6	864.6	842.7	835.7
70°	721.1	723.7	708.0	687.8	685.2
72.5°	567.1	571.5	558.3	545.2	542.6
75°	426.2	427.9	421.8	410.4	401.7
77.5°	302.8	308.9	301.9	294.0	287.0
80°	210.9	201.3	202.2	198.7	190.8
82.5°	126.9	122.5	121.6	118.1	114.6
85°	63.9	63.0	63.9	63.0	59.5
87.5°	21.0	22.8	23.6	23.6	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)