

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: P412923

Luminaire Tested: **24PD-80-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412923
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-80-PP3-L850
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

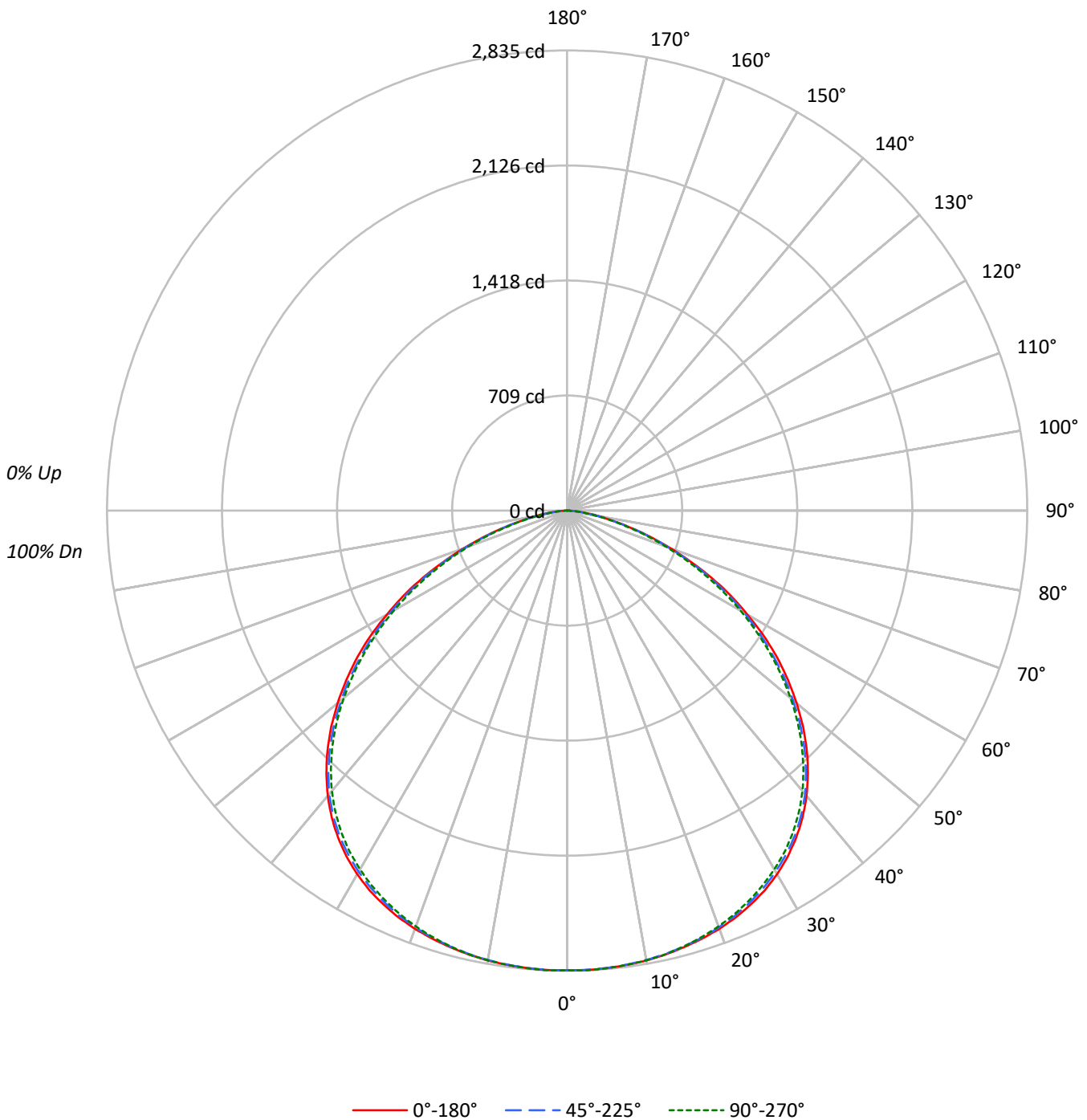
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8242.0 lumens
Efficiency: N/A
Efficacy: 136.7 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): 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	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°	3811	3811	3811
5°	3821	3820	3822
10°	3845	3841	3844
15°	3879	3873	3871
20°	3926	3913	3904
25°	3975	3954	3936
30°	4019	3991	3966
35°	4041	4017	3980
40°	4030	4006	3961
45°	3973	3934	3890
50°	3864	3802	3762
55°	3704	3615	3569
60°	3451	3391	3323
65°	3128	3065	2976
70°	2670	2621	2537
75°	2085	2064	1966
80°	1538	1475	1392
85°	928	928	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	3.3
10°-20°	786.4	9.5
20°-30°	1229.1	14.9
30°-40°	1527.6	18.5
40°-50°	1591.6	19.3
50°-60°	1381.1	16.8
60°-70°	949.6	11.5
70°-80°	428.6	5.2
80°-90°	78.5	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°	2285.0	27.7
0°-40°	3812.6	46.3
0°-60°	6785.3	82.3
0°-90°	8242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2832	2832	2832	2832	2832	
5°	2829	2830	2828	2826	2830	270
15°	2785	2785	2781	2778	2779	788
25°	2678	2677	2664	2653	2651	1235
35°	2460	2460	2445	2431	2423	1537
45°	2088	2089	2067	2052	2044	1607
55°	1579	1570	1541	1523	1521	1407
65°	983	978	963	940	935	970
75°	401	403	397	386	378	437
85°	60	59	60	59	56	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2832.5	2832.5	2832.5	2832.5	2832.5
2.5°	2833.4	2833.4	2831.7	2829.2	2835.0
5°	2829.2	2830.1	2828.4	2825.9	2830.1
7.5°	2823.5	2824.3	2821.8	2819.4	2822.7
10°	2814.4	2813.6	2811.1	2809.5	2813.6
12.5°	2801.2	2800.4	2797.9	2796.3	2799.6
15°	2784.8	2784.8	2780.6	2778.2	2779.0
17.5°	2765.0	2765.0	2759.2	2753.5	2755.1
20°	2741.9	2741.1	2732.9	2727.1	2726.3
22.5°	2713.1	2713.1	2701.6	2694.2	2691.7
25°	2677.7	2676.9	2663.7	2653.0	2651.3
27.5°	2637.3	2635.7	2620.0	2609.3	2605.2
30°	2587.1	2585.4	2569.0	2557.4	2552.5
32.5°	2527.8	2530.3	2511.3	2498.1	2493.2
35°	2460.2	2460.2	2445.4	2431.4	2423.2
37.5°	2382.8	2382.8	2368.8	2354.8	2344.9
40°	2294.7	2295.5	2280.7	2263.4	2255.2
42.5°	2195.9	2197.5	2177.7	2163.7	2154.7
45°	2088.0	2088.8	2067.4	2051.7	2044.3
47.5°	1971.0	1969.3	1945.5	1932.3	1924.9
50°	1845.8	1842.5	1816.2	1803.8	1797.2
52.5°	1714.8	1708.3	1685.2	1667.1	1661.3
55°	1578.9	1569.9	1541.1	1522.9	1521.3
57.5°	1437.3	1426.6	1402.7	1385.4	1378.8
60°	1282.4	1280.0	1260.2	1239.6	1234.7
62.5°	1137.5	1130.0	1112.8	1088.0	1085.6
65°	982.6	978.5	962.8	939.8	934.8
67.5°	822.8	826.9	813.8	793.2	786.6
70°	678.7	681.2	666.3	647.4	644.9
72.5°	533.7	537.8	525.5	513.1	510.7
75°	401.1	402.8	397.0	386.3	378.1
77.5°	285.0	290.7	284.2	276.7	270.2
80°	198.5	189.4	190.3	187.0	179.6
82.5°	119.4	115.3	114.5	111.2	107.9
85°	60.1	59.3	60.1	59.3	56.0
87.5°	19.8	21.4	22.2	22.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)