

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: P412827

Luminaire Tested: **24PD-100-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412827
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-100-PP3-L935
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

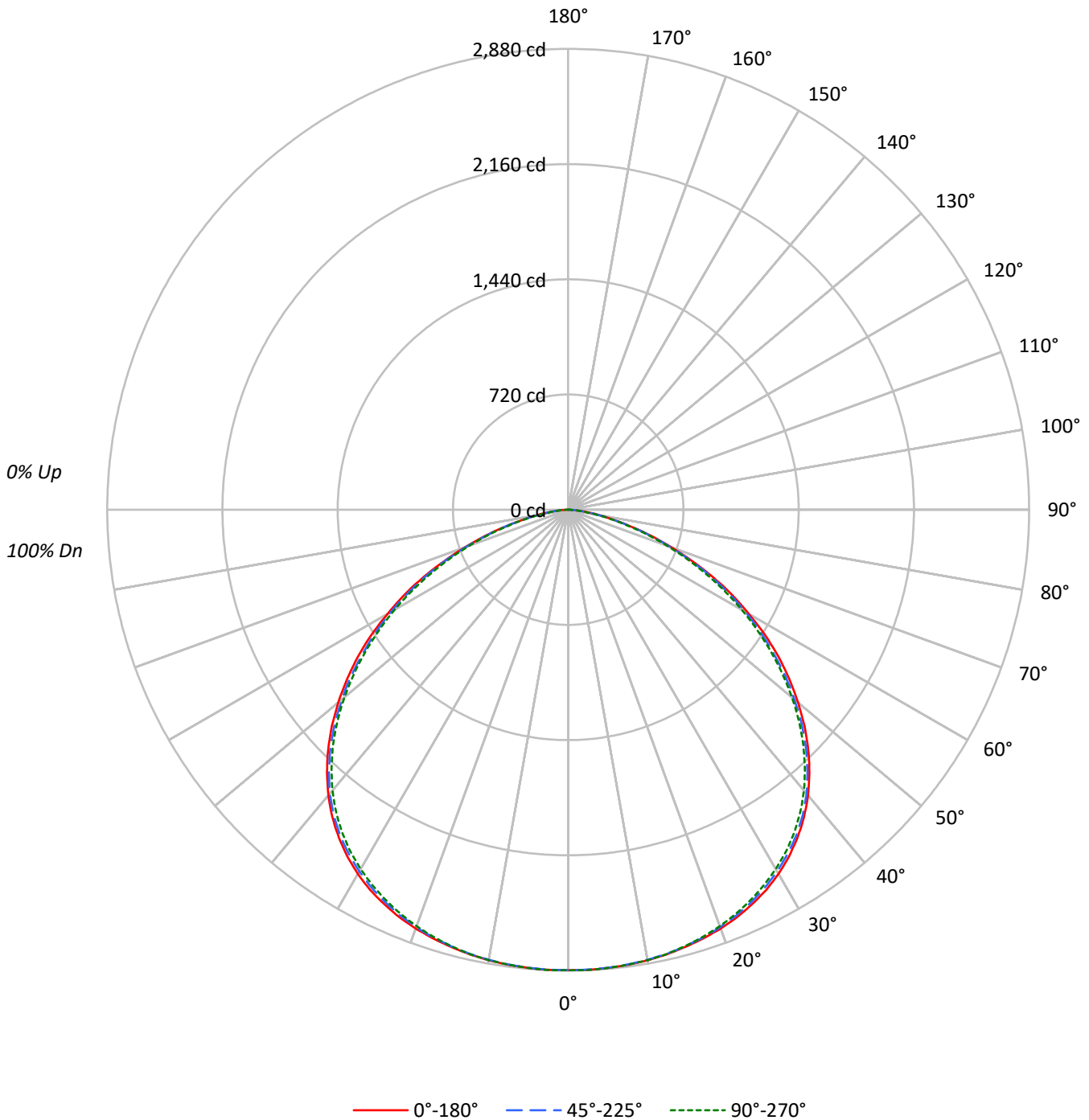
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.0 lumens
Efficiency: N/A
Efficacy: 108.2 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): 77.4
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

TEST NUMBER: P412827
CATALOG NUMBER: 24PD-100-PP3-L935

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°	3872	3872	3872
5°	3882	3881	3883
10°	3906	3902	3905
15°	3941	3935	3933
20°	3988	3975	3966
25°	4038	4017	3999
30°	4083	4055	4029
35°	4105	4081	4043
40°	4095	4069	4024
45°	4036	3996	3952
50°	3925	3862	3822
55°	3763	3672	3625
60°	3506	3445	3375
65°	3178	3114	3024
70°	2712	2663	2578
75°	2118	2097	1997
80°	1563	1498	1413
85°	943	943	878



TEST NUMBER: P412827

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	3.3
10°-20°	798.9	9.5
20°-30°	1248.7	14.9
30°-40°	1551.9	18.5
40°-50°	1616.9	19.3
50°-60°	1403.0	16.8
60°-70°	964.7	11.5
70°-80°	435.4	5.2
80°-90°	79.8	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°	2321.3	27.7
0°-40°	3873.1	46.3
0°-60°	6893.1	82.3
0°-90°	8373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2878	2878	2878	2878	2878	
5°	2874	2875	2873	2871	2875	274
15°	2829	2829	2825	2822	2823	800
25°	2720	2719	2706	2695	2694	1255
35°	2499	2499	2484	2470	2462	1562
45°	2121	2122	2100	2084	2077	1633
55°	1604	1595	1566	1547	1546	1429
65°	998	994	978	955	950	985
75°	408	409	403	392	384	444
85°	61	60	61	60	57	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2877.6	2877.6	2877.6	2877.6	2877.6
2.5°	2878.4	2878.4	2876.7	2874.2	2880.1
5°	2874.2	2875.0	2873.4	2870.9	2875.0
7.5°	2868.4	2869.2	2866.7	2864.2	2867.5
10°	2859.1	2858.3	2855.8	2854.1	2858.3
12.5°	2845.8	2844.9	2842.4	2840.7	2844.1
15°	2829.0	2829.0	2824.8	2822.3	2823.2
17.5°	2808.9	2808.9	2803.1	2797.2	2798.9
20°	2785.5	2784.7	2776.3	2770.5	2769.6
22.5°	2756.2	2756.2	2744.5	2737.0	2734.5
25°	2720.2	2719.4	2706.0	2695.1	2693.5
27.5°	2679.2	2677.6	2661.7	2650.8	2646.6
30°	2628.2	2626.5	2609.8	2598.1	2593.1
32.5°	2568.0	2570.5	2551.2	2537.8	2532.8
35°	2499.3	2499.3	2484.3	2470.1	2461.7
37.5°	2420.7	2420.7	2406.5	2392.2	2382.2
40°	2331.2	2332.0	2316.9	2299.4	2291.0
42.5°	2230.8	2232.4	2212.3	2198.1	2188.9
45°	2121.1	2122.0	2100.2	2084.3	2076.8
47.5°	2002.3	2000.7	1976.4	1963.0	1955.5
50°	1875.1	1871.8	1845.0	1832.5	1825.8
52.5°	1742.1	1735.4	1712.0	1693.6	1687.7
55°	1604.0	1594.8	1565.5	1547.1	1545.5
57.5°	1460.1	1449.2	1425.0	1407.4	1400.7
60°	1302.8	1300.3	1280.2	1259.3	1254.3
62.5°	1155.5	1148.0	1130.4	1105.3	1102.8
65°	998.2	994.0	978.2	954.7	949.7
67.5°	835.9	840.1	826.7	805.8	799.1
70°	689.5	692.0	676.9	657.7	655.2
72.5°	542.2	546.4	533.8	521.3	518.8
75°	407.5	409.2	403.3	392.4	384.1
77.5°	289.5	295.4	288.7	281.1	274.5
80°	201.7	192.5	193.3	189.9	182.4
82.5°	121.3	117.1	116.3	113.0	109.6
85°	61.1	60.2	61.1	60.2	56.9
87.5°	20.1	21.8	22.6	22.6	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)