

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: P412483

Luminaire Tested: **24PD-10-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412483
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-10-PB1-L927
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

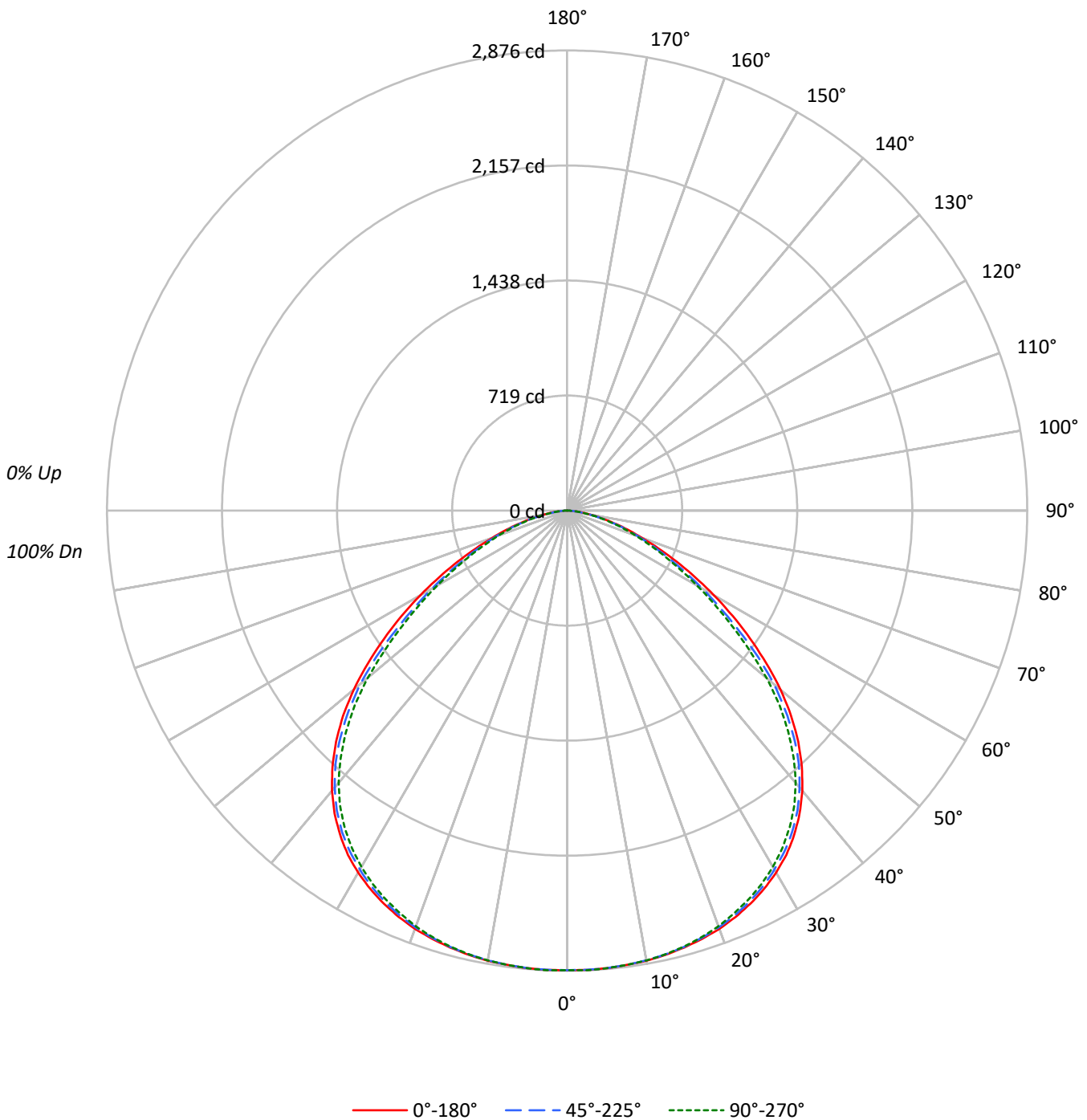
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7642.0 lumens
Efficiency: N/A
Efficacy: 98.7 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): 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: P412483
CATALOG NUMBER: 24PD-10-PB1-L927

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°	3864	3864	3864
5°	3877	3877	3877
10°	3903	3899	3900
15°	3938	3933	3930
20°	3983	3969	3958
25°	4024	4004	3981
30°	4059	4026	3995
35°	4063	4028	3978
40°	4016	3969	3903
45°	3886	3815	3717
50°	3644	3531	3402
55°	3275	3080	2953
60°	2851	2624	2524
65°	2399	2220	2123
70°	1956	1856	1782
75°	1567	1512	1448
80°	1203	1109	1079
85°	752	729	729



TEST NUMBER: P412483

CATALOG NUMBER: 24PD-10-PB1-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	3.6
10°-20°	798.1	10.4
20°-30°	1243.4	16.3
30°-40°	1529.6	20.0
40°-50°	1536.4	20.1
50°-60°	1184.1	15.5
60°-70°	703.0	9.2
70°-80°	313.0	4.1
80°-90°	61.1	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°	2314.9	30.3
0°-40°	3844.4	50.3
0°-60°	6564.9	85.9
0°-90°	7642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2870	2871	2870	2867	2870	274
15°	2827	2827	2823	2819	2821	799
25°	2711	2710	2697	2685	2682	1250
35°	2474	2470	2452	2432	2422	1545
45°	2042	2037	2005	1972	1953	1568
55°	1396	1369	1313	1274	1259	1248
65°	754	721	697	671	667	753
75°	301	295	291	281	279	326
85°	49	46	47	45	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2872.0	2872.0	2872.0	2872.0	2872.0
2.5°	2873.5	2872.7	2872.7	2869.7	2875.8
5°	2870.4	2871.2	2870.4	2867.4	2870.4
7.5°	2864.3	2865.1	2863.6	2860.5	2863.6
10°	2856.7	2856.7	2853.7	2852.2	2854.5
12.5°	2843.8	2843.8	2840.8	2838.5	2840.8
15°	2827.1	2827.1	2823.2	2818.7	2821.0
17.5°	2806.5	2806.5	2800.4	2794.3	2795.8
20°	2781.4	2780.6	2772.2	2763.9	2764.6
22.5°	2749.4	2748.6	2738.0	2728.1	2725.1
25°	2710.6	2709.8	2696.9	2684.7	2681.7
27.5°	2665.7	2662.6	2648.2	2634.5	2631.4
30°	2612.4	2610.1	2591.1	2577.4	2571.3
32.5°	2550.7	2544.7	2527.1	2510.4	2502.0
35°	2473.9	2470.1	2452.5	2432.0	2422.1
37.5°	2387.1	2383.3	2364.2	2341.4	2330.0
40°	2286.6	2283.6	2260.0	2236.4	2221.9
42.5°	2170.9	2168.6	2143.5	2110.8	2095.5
45°	2042.3	2036.9	2005.0	1971.5	1953.2
47.5°	1899.2	1890.0	1851.2	1819.2	1799.4
50°	1740.8	1728.7	1686.8	1645.7	1625.1
52.5°	1569.6	1548.3	1504.9	1457.7	1437.9
55°	1396.0	1369.4	1313.0	1273.5	1259.0
57.5°	1226.3	1187.5	1134.2	1106.0	1091.5
60°	1059.6	1016.9	975.1	947.7	937.8
62.5°	900.5	864.7	828.9	801.5	795.4
65°	753.6	720.8	697.2	670.6	666.8
67.5°	616.6	601.3	580.0	557.2	554.1
70°	497.1	491.0	471.9	458.2	452.9
72.5°	396.6	390.5	376.8	366.9	365.4
75°	301.4	295.3	290.8	280.9	278.6
77.5°	214.7	215.4	211.6	206.3	207.8
80°	155.3	146.1	143.1	140.1	139.3
82.5°	95.1	89.8	87.5	86.8	88.3
85°	48.7	46.4	47.2	44.9	47.2
87.5°	16.7	16.7	17.5	16.7	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)