

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: P412602

Luminaire Tested: **24PD-90-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412602
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-90-PB1-L935
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

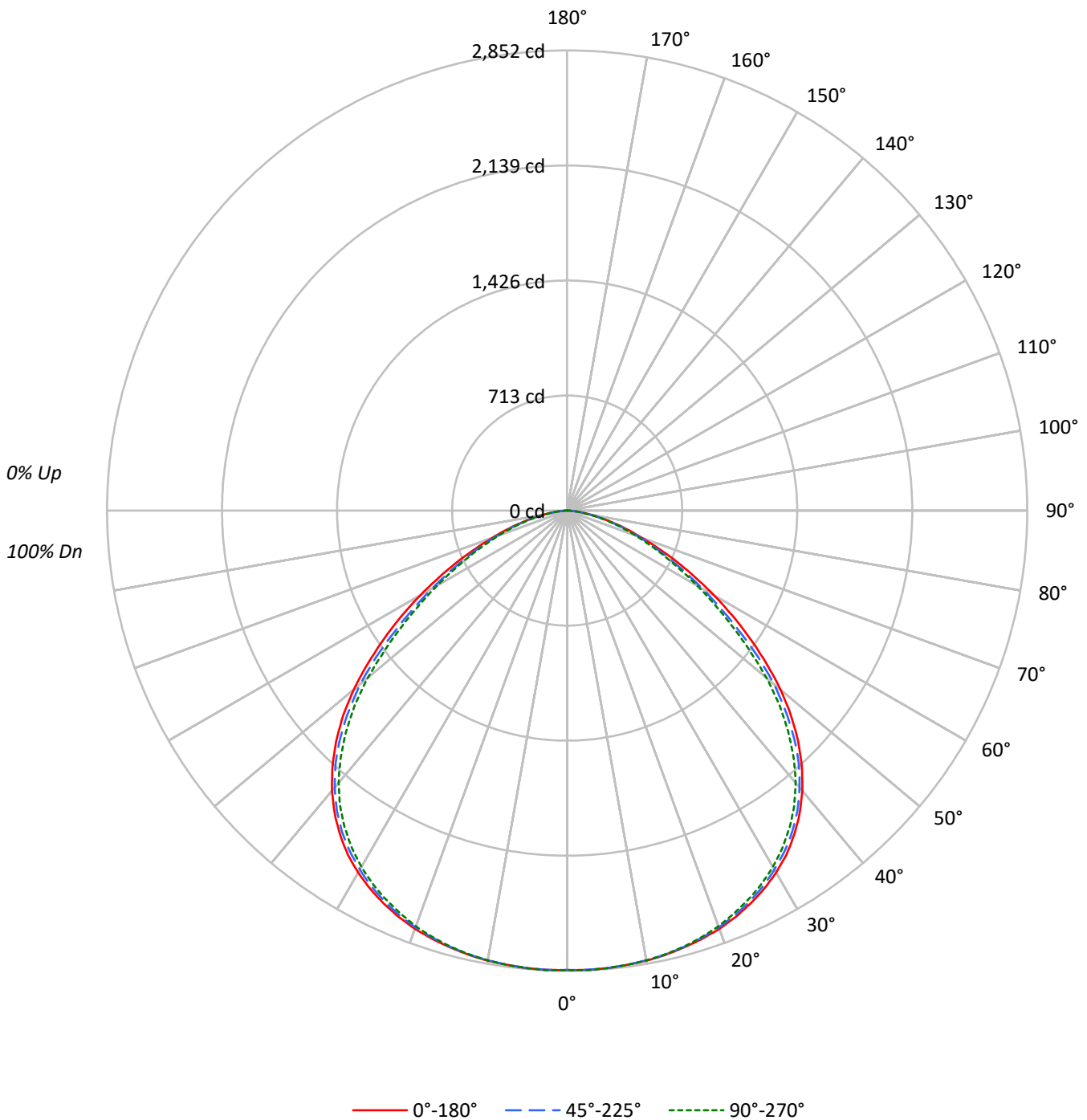
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7578.0 lumens
Efficiency: N/A
Efficacy: 110.3 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): 68.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	3832	3832	3832
5°	3844	3844	3844
10°	3870	3866	3867
15°	3905	3900	3897
20°	3949	3936	3925
25°	3990	3970	3948
30°	4025	3992	3961
35°	4029	3995	3945
40°	3983	3936	3870
45°	3854	3783	3686
50°	3614	3501	3373
55°	3247	3054	2929
60°	2827	2602	2502
65°	2379	2201	2105
70°	1939	1841	1767
75°	1554	1499	1436
80°	1193	1099	1070
85°	746	722	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	3.6
10°-20°	791.4	10.4
20°-30°	1232.9	16.3
30°-40°	1516.7	20.0
40°-50°	1523.5	20.1
50°-60°	1174.2	15.5
60°-70°	697.1	9.2
70°-80°	310.4	4.1
80°-90°	60.6	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°	2295.5	30.3
0°-40°	3812.2	50.3
0°-60°	6510.0	85.9
0°-90°	7578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2848	2848	2848	2848	2848	
5°	2846	2847	2846	2843	2846	271
15°	2803	2803	2800	2795	2797	793
25°	2688	2687	2674	2662	2659	1240
35°	2453	2449	2432	2412	2402	1532
45°	2025	2020	1988	1955	1937	1554
55°	1384	1358	1302	1263	1248	1238
65°	747	715	691	665	661	747
75°	299	293	288	278	276	324
85°	48	46	47	44	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2847.9	2847.9	2847.9	2847.9	2847.9
2.5°	2849.4	2848.7	2848.7	2845.6	2851.7
5°	2846.4	2847.2	2846.4	2843.4	2846.4
7.5°	2840.4	2841.1	2839.6	2836.6	2839.6
10°	2832.8	2832.8	2829.8	2828.3	2830.5
12.5°	2820.0	2820.0	2817.0	2814.7	2817.0
15°	2803.4	2803.4	2799.6	2795.1	2797.3
17.5°	2783.0	2783.0	2777.0	2770.9	2772.4
20°	2758.1	2757.3	2749.0	2740.7	2741.5
22.5°	2726.4	2725.6	2715.1	2705.2	2702.2
25°	2687.9	2687.1	2674.3	2662.2	2659.2
27.5°	2643.4	2640.3	2626.0	2612.4	2609.4
30°	2590.5	2588.3	2569.4	2555.8	2549.8
32.5°	2529.4	2523.3	2506.0	2489.4	2481.1
35°	2453.1	2449.4	2432.0	2411.6	2401.8
37.5°	2367.1	2363.3	2344.4	2321.8	2310.5
40°	2267.5	2264.4	2241.0	2217.6	2203.3
42.5°	2152.7	2150.5	2125.6	2093.1	2078.0
45°	2025.2	2019.9	1988.2	1955.0	1936.9
47.5°	1883.3	1874.2	1835.7	1804.0	1784.4
50°	1726.3	1714.2	1672.7	1631.9	1611.5
52.5°	1556.4	1535.3	1492.3	1445.5	1425.8
55°	1384.3	1357.9	1302.1	1262.8	1248.5
57.5°	1216.0	1177.5	1124.7	1096.7	1082.4
60°	1050.7	1008.4	966.9	939.7	929.9
62.5°	892.9	857.5	822.0	794.8	788.8
65°	747.3	714.8	691.4	665.0	661.2
67.5°	611.4	596.3	575.2	552.5	549.5
70°	492.9	486.9	468.0	454.4	449.1
72.5°	393.3	387.2	373.6	363.8	362.3
75°	298.9	292.9	288.3	278.5	276.3
77.5°	212.9	213.6	209.8	204.6	206.1
80°	154.0	144.9	141.9	138.9	138.1
82.5°	94.4	89.1	86.8	86.0	87.6
85°	48.3	46.0	46.8	44.5	46.8
87.5°	16.6	16.6	17.4	16.6	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)