

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: P412485

Luminaire Tested: **24PD-10-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412485
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-L935
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

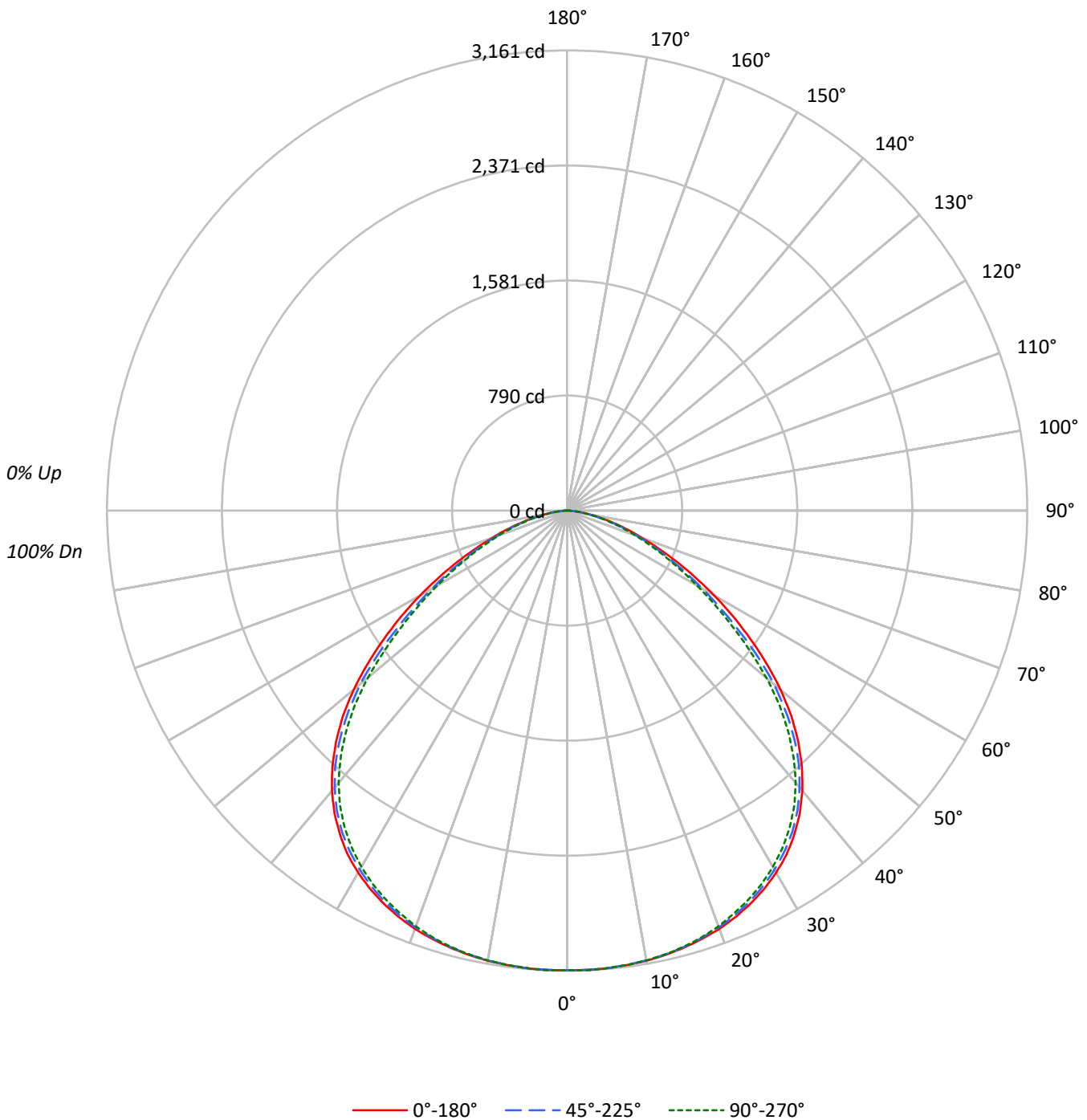
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8400.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

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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°	4247	4247	4247
5°	4262	4262	4262
10°	4290	4286	4287
15°	4329	4323	4319
20°	4378	4363	4351
25°	4423	4401	4376
30°	4461	4425	4391
35°	4466	4428	4373
40°	4415	4363	4290
45°	4271	4193	4085
50°	4005	3881	3739
55°	3600	3386	3246
60°	3134	2884	2774
65°	2637	2440	2333
70°	2150	2041	1958
75°	1722	1661	1592
80°	1323	1219	1186
85°	826	801	801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	3.6
10°-20°	877.3	10.4
20°-30°	1366.7	16.3
30°-40°	1681.3	20.0
40°-50°	1688.7	20.1
50°-60°	1301.6	15.5
60°-70°	772.7	9.2
70°-80°	344.0	4.1
80°-90°	67.2	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°	2544.5	30.3
0°-40°	4225.8	50.3
0°-60°	7216.1	85.9
0°-90°	8400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3157	3157	3157	3157	3157	
5°	3155	3156	3155	3152	3155	301
15°	3108	3108	3103	3098	3101	879
25°	2979	2979	2964	2951	2948	1374
35°	2719	2715	2696	2673	2662	1698
45°	2245	2239	2204	2167	2147	1723
55°	1534	1505	1443	1400	1384	1372
65°	828	792	766	737	733	828
75°	331	325	320	309	306	359
85°	54	51	52	49	52	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3156.8	3156.8	3156.8	3156.8	3156.8
2.5°	3158.5	3157.7	3157.7	3154.3	3161.0
5°	3155.2	3156.0	3155.2	3151.8	3155.2
7.5°	3148.5	3149.3	3147.6	3144.3	3147.6
10°	3140.1	3140.1	3136.7	3135.1	3137.6
12.5°	3125.9	3125.9	3122.5	3120.0	3122.5
15°	3107.5	3107.5	3103.3	3098.3	3100.8
17.5°	3084.9	3084.9	3078.2	3071.5	3073.2
20°	3057.3	3056.4	3047.2	3038.0	3038.9
22.5°	3022.1	3021.3	3009.6	2998.7	2995.3
25°	2979.4	2978.6	2964.4	2951.0	2947.7
27.5°	2930.1	2926.7	2910.8	2895.8	2892.4
30°	2871.5	2869.0	2848.1	2833.0	2826.3
32.5°	2803.7	2797.1	2777.8	2759.4	2750.2
35°	2719.2	2715.1	2695.8	2673.2	2662.3
37.5°	2623.9	2619.7	2598.8	2573.7	2561.1
40°	2513.4	2510.1	2484.1	2458.2	2442.3
42.5°	2386.2	2383.7	2356.1	2320.1	2303.4
45°	2244.8	2239.0	2203.8	2167.0	2146.9
47.5°	2087.5	2077.5	2034.8	1999.7	1977.9
50°	1913.5	1900.1	1854.1	1808.9	1786.3
52.5°	1725.3	1701.8	1654.1	1602.3	1580.5
55°	1534.5	1505.2	1443.3	1399.8	1383.9
57.5°	1347.9	1305.2	1246.7	1215.7	1199.8
60°	1164.7	1117.8	1071.8	1041.7	1030.8
62.5°	989.8	950.5	911.2	881.0	874.3
65°	828.3	792.3	766.4	737.1	732.9
67.5°	677.7	661.0	637.6	612.5	609.1
70°	546.4	539.7	518.7	503.7	497.8
72.5°	435.9	429.2	414.2	403.3	401.6
75°	331.3	324.6	319.6	308.7	306.2
77.5°	235.9	236.8	232.6	226.7	228.4
80°	170.7	160.6	157.3	154.0	153.1
82.5°	104.6	98.7	96.2	95.4	97.1
85°	53.5	51.0	51.9	49.4	51.9
87.5°	18.4	18.4	19.2	18.4	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)