

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: P412482

Luminaire Tested: **24PD-10-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412482
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-L850
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

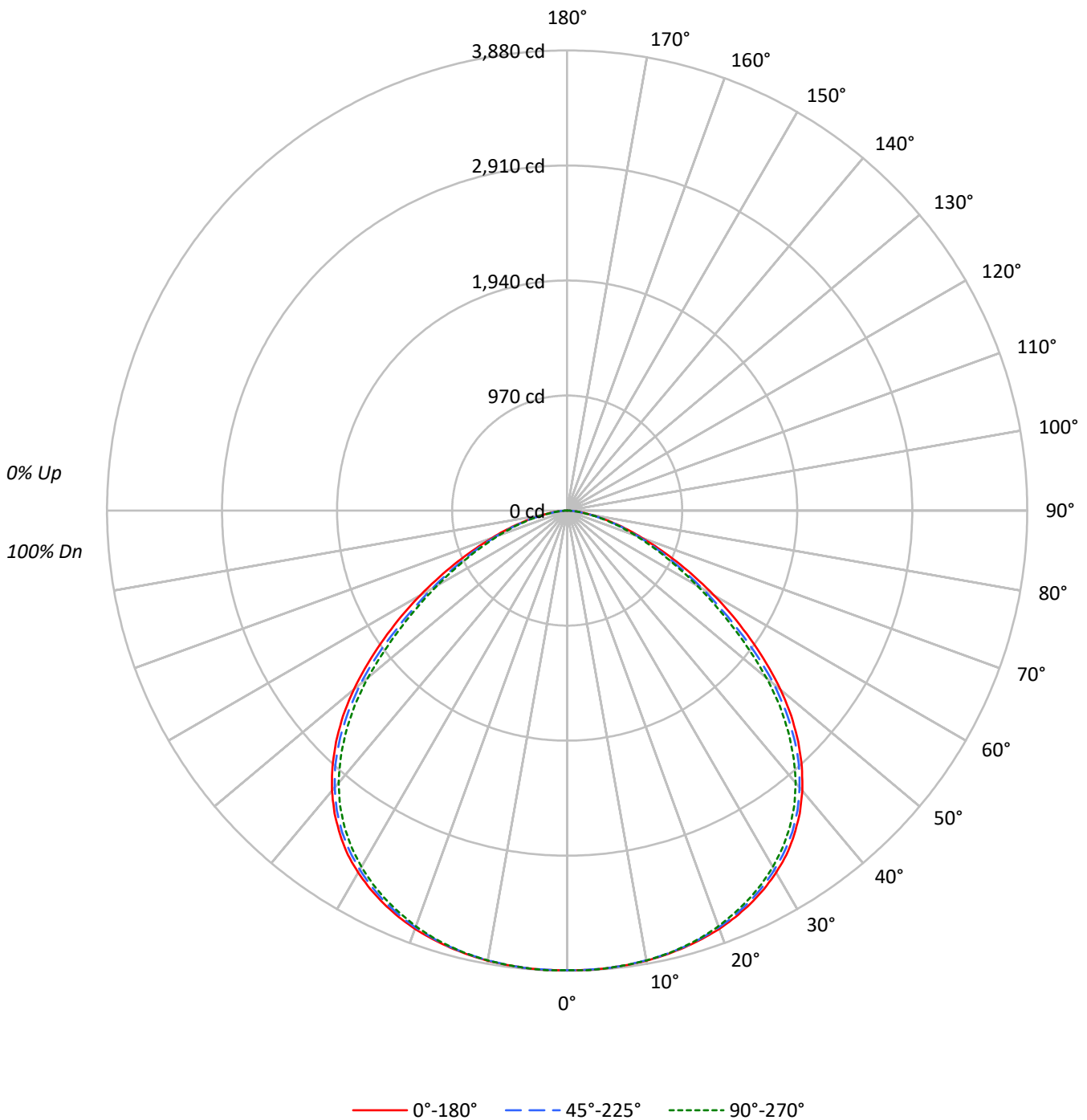
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10311.0 lumens
Efficiency: N/A
Efficacy: 133.2 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°	5214	5214	5214
5°	5231	5231	5231
10°	5266	5261	5262
15°	5313	5306	5302
20°	5373	5356	5341
25°	5430	5402	5372
30°	5476	5432	5390
35°	5483	5435	5368
40°	5419	5356	5266
45°	5243	5147	5015
50°	4917	4764	4590
55°	4419	4156	3985
60°	3847	3540	3405
65°	3237	2995	2864
70°	2638	2505	2404
75°	2114	2039	1954
80°	1623	1496	1456
85°	1014	983	983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	3.6
10°-20°	1076.8	10.4
20°-30°	1677.6	16.3
30°-40°	2063.8	20.0
40°-50°	2072.9	20.1
50°-60°	1597.7	15.5
60°-70°	948.5	9.2
70°-80°	422.3	4.1
80°-90°	82.5	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°	3123.4	30.3
0°-40°	5187.1	50.3
0°-60°	8857.8	85.9
0°-90°	10311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3875	3875	3875	3875	3875	
5°	3873	3874	3873	3869	3873	369
15°	3814	3814	3809	3803	3806	1079
25°	3657	3656	3639	3622	3618	1687
35°	3338	3333	3309	3281	3268	2084
45°	2756	2748	2705	2660	2635	2115
55°	1884	1848	1772	1718	1699	1684
65°	1017	973	941	905	900	1016
75°	407	398	392	379	376	440
85°	66	63	64	61	64	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3875.0	3875.0	3875.0	3875.0	3875.0
2.5°	3877.1	3876.0	3876.0	3871.9	3880.1
5°	3873.0	3874.0	3873.0	3868.8	3873.0
7.5°	3864.7	3865.8	3863.7	3859.6	3863.7
10°	3854.5	3854.5	3850.4	3848.3	3851.4
12.5°	3837.0	3837.0	3832.9	3829.8	3832.9
15°	3814.4	3814.4	3809.3	3803.1	3806.2
17.5°	3786.7	3786.7	3778.5	3770.2	3772.3
20°	3752.8	3751.8	3740.5	3729.2	3730.2
22.5°	3709.7	3708.6	3694.2	3680.9	3676.8
25°	3657.3	3656.2	3638.8	3622.4	3618.2
27.5°	3596.7	3592.6	3573.1	3554.6	3550.5
30°	3524.8	3521.7	3496.0	3477.5	3469.3
32.5°	3441.6	3433.4	3409.8	3387.2	3375.9
35°	3337.9	3332.7	3309.1	3281.4	3268.0
37.5°	3220.8	3215.6	3190.0	3159.2	3143.8
40°	3085.2	3081.1	3049.3	3017.4	2997.9
42.5°	2929.1	2926.0	2892.1	2848.0	2827.4
45°	2755.5	2748.3	2705.2	2660.0	2635.4
47.5°	2562.5	2550.1	2497.8	2454.6	2427.9
50°	2348.8	2332.4	2275.9	2220.5	2192.7
52.5°	2117.7	2089.0	2030.4	1966.8	1940.1
55°	1883.6	1847.6	1771.6	1718.2	1698.7
57.5°	1654.6	1602.2	1530.3	1492.3	1472.8
60°	1429.6	1372.1	1315.6	1278.7	1265.3
62.5°	1215.0	1166.7	1118.4	1081.5	1073.3
65°	1016.8	972.6	940.8	904.8	899.7
67.5°	831.9	811.4	782.6	751.8	747.7
70°	670.7	662.4	636.8	618.3	611.1
72.5°	535.1	526.9	508.4	495.0	493.0
75°	406.7	398.5	392.3	379.0	375.9
77.5°	289.6	290.7	285.5	278.3	280.4
80°	209.5	197.2	193.1	189.0	187.9
82.5°	128.4	121.2	118.1	117.1	119.1
85°	65.7	62.6	63.7	60.6	63.7
87.5°	22.6	22.6	23.6	22.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)