

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: P412480

Luminaire Tested: **24PD-10-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412480
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-L835
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

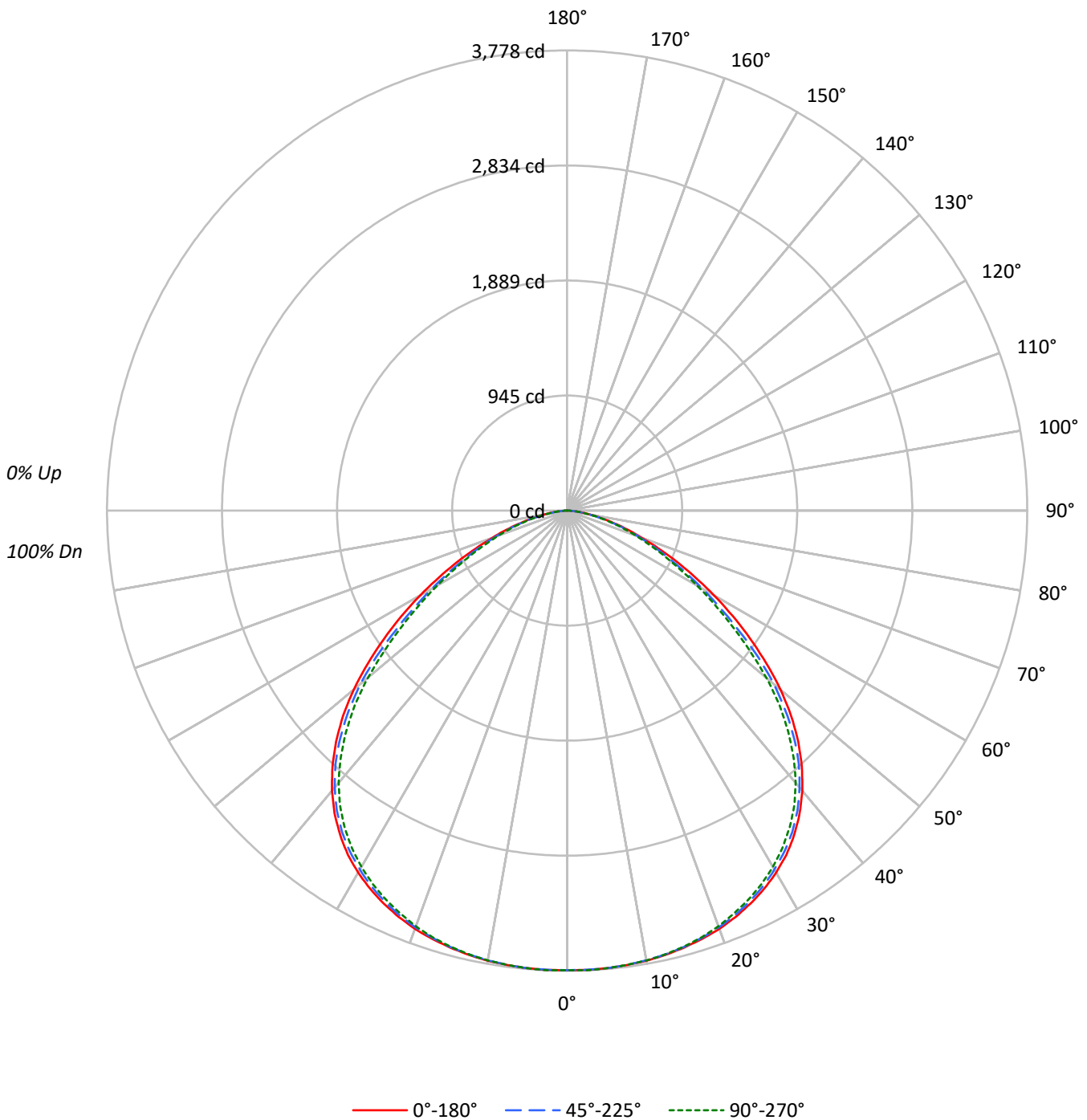
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10039.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

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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	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					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°	5076	5076	5076
5°	5093	5093	5093
10°	5127	5122	5123
15°	5173	5166	5162
20°	5232	5214	5200
25°	5286	5260	5230
30°	5332	5288	5248
35°	5338	5292	5226
40°	5276	5214	5127
45°	5105	5012	4882
50°	4787	4638	4469
55°	4302	4046	3880
60°	3746	3447	3315
65°	3152	2916	2789
70°	2569	2439	2341
75°	2059	1986	1903
80°	1581	1457	1418
85°	988	957	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	3.6
10°-20°	1048.4	10.4
20°-30°	1633.3	16.3
30°-40°	2009.3	20.0
40°-50°	2018.3	20.1
50°-60°	1555.5	15.5
60°-70°	923.5	9.2
70°-80°	411.2	4.1
80°-90°	80.3	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°	3041.0	30.3
0°-40°	5050.3	50.3
0°-60°	8624.1	85.9
0°-90°	10039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3773	3773	3773	3773	3773	
5°	3771	3772	3771	3767	3771	359
15°	3714	3714	3709	3703	3706	1050
25°	3561	3560	3543	3527	3523	1642
35°	3250	3245	3222	3195	3182	2029
45°	2683	2676	2634	2590	2566	2059
55°	1834	1799	1725	1673	1654	1640
65°	990	947	916	881	876	989
75°	396	388	382	369	366	429
85°	64	61	62	59	62	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3772.8	3772.8	3772.8	3772.8	3772.8
2.5°	3774.8	3773.8	3773.8	3769.8	3777.8
5°	3770.8	3771.8	3770.8	3766.8	3770.8
7.5°	3762.8	3763.8	3761.8	3757.8	3761.8
10°	3752.8	3752.8	3748.8	3746.8	3749.8
12.5°	3735.8	3735.8	3731.8	3728.8	3731.8
15°	3713.8	3713.8	3708.8	3702.8	3705.8
17.5°	3686.8	3686.8	3678.8	3670.8	3672.8
20°	3653.8	3652.8	3641.8	3630.8	3631.8
22.5°	3611.8	3610.8	3596.8	3583.8	3579.8
25°	3560.8	3559.8	3542.8	3526.8	3522.8
27.5°	3501.8	3497.8	3478.8	3460.8	3456.8
30°	3431.8	3428.8	3403.8	3385.8	3377.8
32.5°	3350.8	3342.8	3319.8	3297.8	3286.8
35°	3249.8	3244.8	3221.8	3194.8	3181.8
37.5°	3135.8	3130.8	3105.8	3075.8	3060.8
40°	3003.8	2999.8	2968.8	2937.8	2918.8
42.5°	2851.8	2848.8	2815.8	2772.8	2752.8
45°	2682.8	2675.8	2633.8	2589.9	2565.9
47.5°	2494.9	2482.9	2431.9	2389.9	2363.9
50°	2286.9	2270.9	2215.9	2161.9	2134.9
52.5°	2061.9	2033.9	1976.9	1914.9	1888.9
55°	1833.9	1798.9	1724.9	1672.9	1653.9
57.5°	1610.9	1559.9	1489.9	1452.9	1433.9
60°	1391.9	1335.9	1280.9	1244.9	1231.9
62.5°	1182.9	1135.9	1088.9	1052.9	1044.9
65°	989.9	946.9	915.9	880.9	875.9
67.5°	810.0	790.0	762.0	732.0	728.0
70°	653.0	645.0	620.0	602.0	595.0
72.5°	521.0	513.0	495.0	482.0	480.0
75°	396.0	388.0	382.0	369.0	366.0
77.5°	282.0	283.0	278.0	271.0	273.0
80°	204.0	192.0	188.0	184.0	183.0
82.5°	125.0	118.0	115.0	114.0	116.0
85°	64.0	61.0	62.0	59.0	62.0
87.5°	22.0	22.0	23.0	22.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)