

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: P412461

Luminaire Tested: **22PD-80-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PB1-L830
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

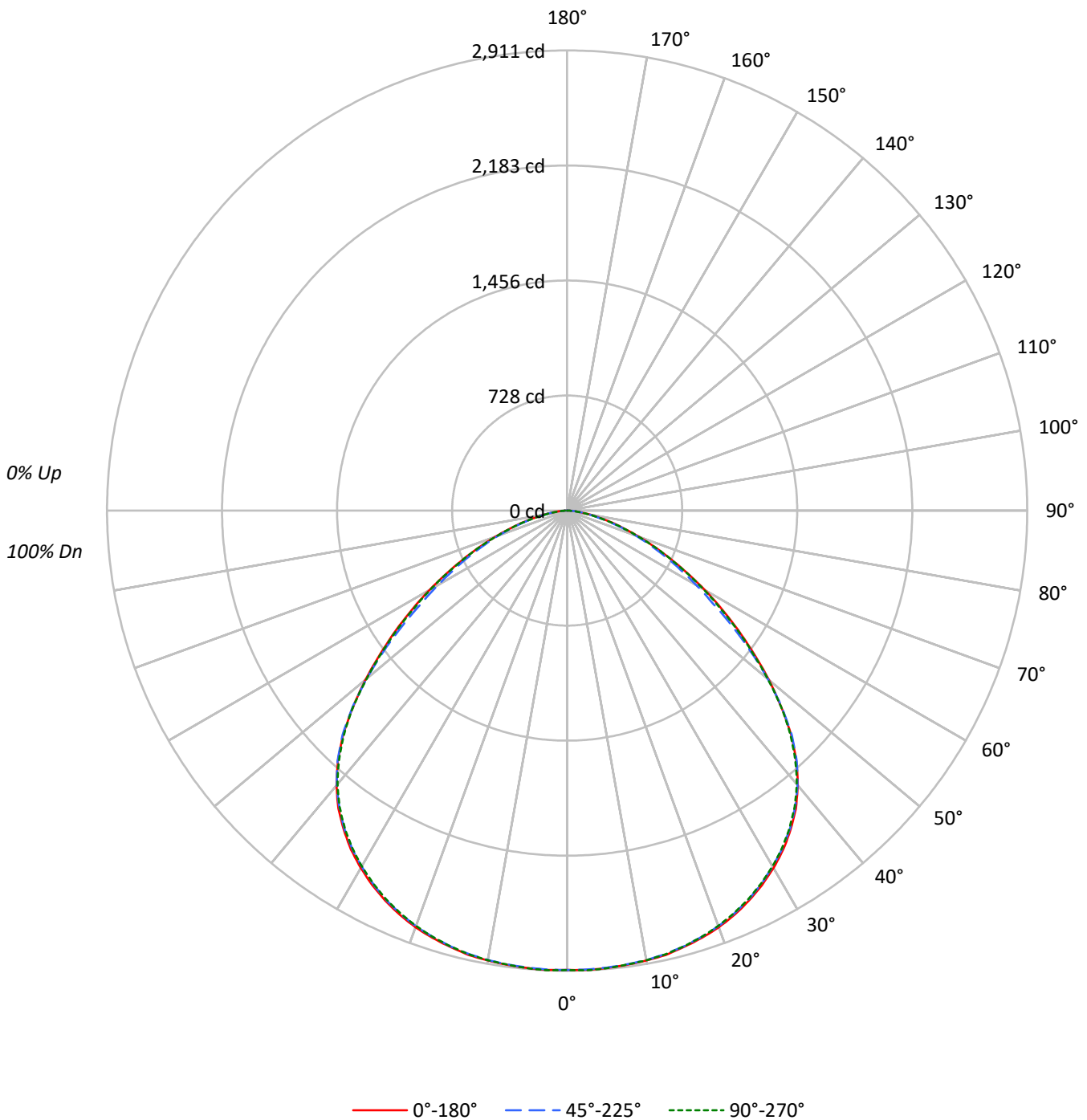
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7630.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7821	7821	7821
5°	7846	7839	7848
10°	7897	7887	7892
15°	7961	7949	7949
20°	8034	8011	8006
25°	8085	8061	8053
30°	8112	8078	8073
35°	8095	8071	8056
40°	7974	7965	7939
45°	7623	7647	7589
50°	6979	6941	6934
55°	6202	5983	6160
60°	5407	5078	5373
65°	4583	4337	4560
70°	3790	3634	3755
75°	3065	2869	2943
80°	2214	2145	2131
85°	1442	1442	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	3.6
10°-20°	806.5	10.6
20°-30°	1251.5	16.4
30°-40°	1534.7	20.1
40°-50°	1534.1	20.1
50°-60°	1162.1	15.2
60°-70°	697.0	9.1
70°-80°	306.9	4.0
80°-90°	60.9	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°	2334.5	30.6
0°-40°	3869.2	50.7
0°-60°	6565.3	86.0
0°-90°	7630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2904	2901	2902	2901	2905	277
15°	2858	2855	2853	2851	2853	808
25°	2723	2718	2715	2710	2712	1255
35°	2464	2463	2457	2455	2452	1539
45°	2003	2006	2009	2004	1994	1533
55°	1322	1293	1275	1292	1313	1185
65°	720	695	681	693	716	720
75°	295	288	276	280	283	314
85°	47	48	47	45	45	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2906.3	2906.3	2906.3	2906.3	2906.3
2.5°	2909.0	2904.5	2905.4	2905.4	2910.8
5°	2904.5	2900.9	2901.8	2900.9	2905.4
7.5°	2898.2	2894.6	2895.5	2894.6	2897.3
10°	2890.1	2886.5	2886.5	2884.7	2888.3
12.5°	2879.3	2874.8	2873.0	2872.1	2874.8
15°	2857.7	2855.0	2853.2	2851.4	2853.2
17.5°	2834.4	2829.9	2828.1	2824.5	2828.1
20°	2805.6	2799.3	2797.5	2794.8	2795.7
22.5°	2767.9	2762.5	2759.8	2755.3	2757.1
25°	2722.9	2717.5	2714.8	2710.4	2712.1
27.5°	2670.8	2667.2	2660.9	2657.3	2658.2
30°	2610.6	2607.0	2599.8	2598.0	2598.0
32.5°	2544.1	2539.6	2533.3	2531.5	2530.6
35°	2464.1	2463.2	2456.9	2455.1	2452.4
37.5°	2376.9	2375.2	2368.0	2366.2	2363.5
40°	2270.0	2268.2	2267.3	2263.7	2260.1
42.5°	2146.0	2148.7	2150.5	2143.3	2136.1
45°	2003.1	2005.8	2009.4	2004.0	1994.1
47.5°	1836.0	1846.7	1841.3	1844.9	1835.1
50°	1667.0	1667.0	1658.0	1661.6	1656.2
52.5°	1490.0	1475.6	1464.8	1472.0	1479.2
55°	1321.9	1293.2	1275.2	1292.3	1312.9
57.5°	1161.1	1126.9	1093.7	1120.6	1145.8
60°	1004.7	965.2	943.6	963.4	998.4
62.5°	856.4	827.7	806.1	821.4	851.0
65°	719.8	694.7	681.2	692.9	716.2
67.5°	594.9	577.8	564.4	574.2	592.2
70°	481.7	477.2	461.9	466.4	477.2
72.5°	378.3	377.4	364.0	367.6	373.8
75°	294.8	288.5	275.9	280.4	283.1
77.5°	208.5	211.2	199.5	202.2	202.2
80°	142.9	147.4	138.4	136.6	137.5
82.5°	90.8	90.8	89.9	89.0	86.3
85°	46.7	48.5	46.7	44.9	44.9
87.5°	18.0	18.0	18.0	17.1	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)