

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: P412417

Luminaire Tested: **22PD-55-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412417
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-55-PB1-L835
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

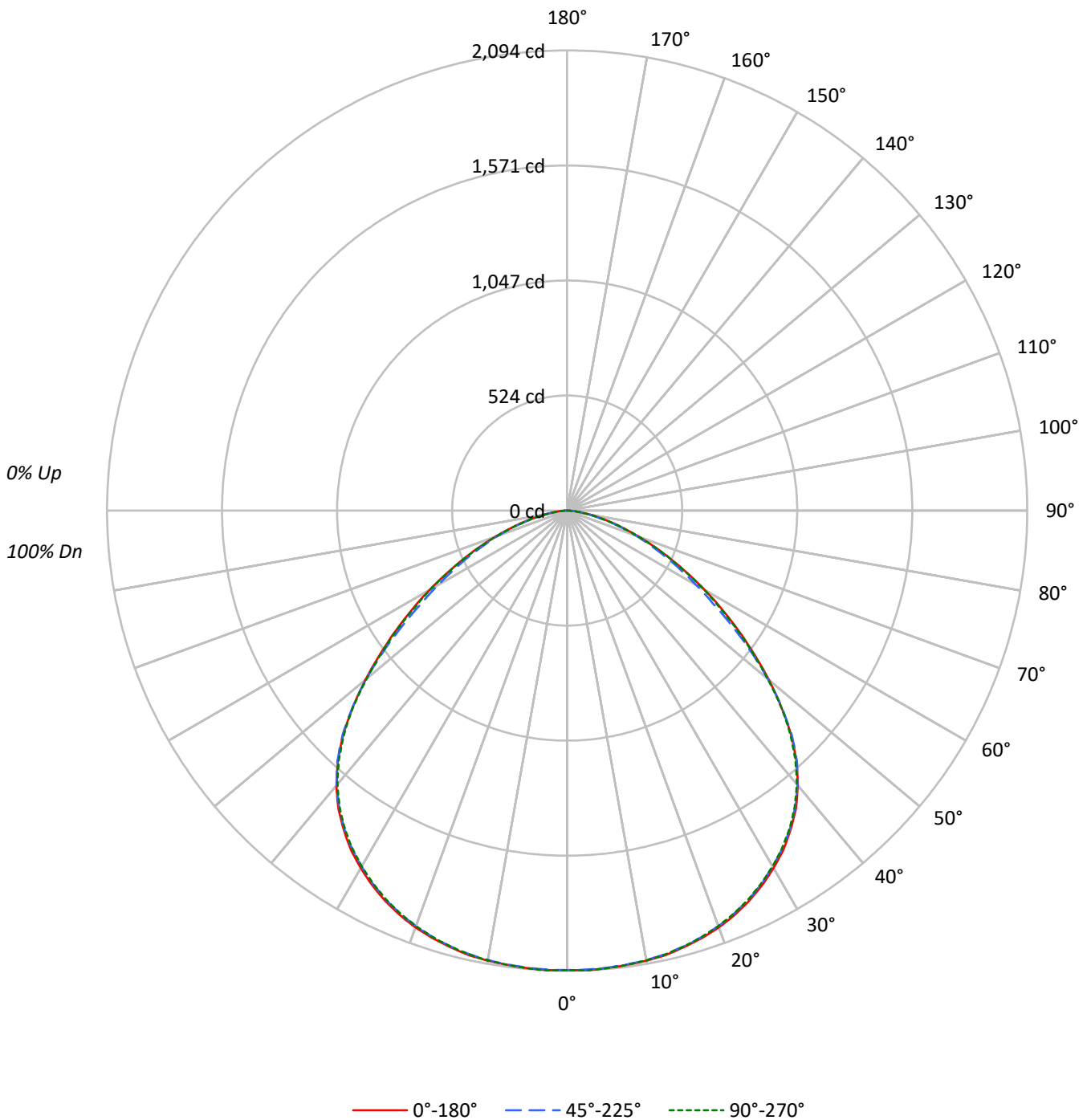
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5490.0 lumens
Efficiency: N/A
Efficacy: 118.8 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): 46.2
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	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°	5627	5627	5627
5°	5645	5640	5647
10°	5682	5675	5679
15°	5728	5719	5719
20°	5781	5764	5761
25°	5817	5800	5794
30°	5837	5812	5808
35°	5824	5807	5797
40°	5737	5731	5713
45°	5485	5502	5460
50°	5022	4994	4989
55°	4463	4305	4432
60°	3891	3654	3866
65°	3298	3121	3281
70°	2727	2615	2701
75°	2205	2064	2118
80°	1593	1543	1533
85°	1037	1037	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.6
10°-20°	580.3	10.6
20°-30°	900.5	16.4
30°-40°	1104.2	20.1
40°-50°	1103.8	20.1
50°-60°	836.1	15.2
60°-70°	501.5	9.1
70°-80°	220.8	4.0
80°-90°	43.8	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°	1679.7	30.6
0°-40°	2784.0	50.7
0°-60°	4723.9	86.0
0°-90°	5490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2090	2087	2088	2087	2090	199
15°	2056	2054	2053	2052	2053	581
25°	1959	1955	1953	1950	1952	903
35°	1773	1772	1768	1766	1765	1107
45°	1441	1443	1446	1442	1435	1103
55°	951	930	918	930	945	853
65°	518	500	490	498	515	518
75°	212	208	198	202	204	226
85°	34	35	34	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.1	2091.1	2091.1	2091.1	2091.1
2.5°	2093.1	2089.8	2090.5	2090.5	2094.4
5°	2089.8	2087.3	2087.9	2087.3	2090.5
7.5°	2085.3	2082.7	2083.4	2082.7	2084.7
10°	2079.5	2076.9	2076.9	2075.6	2078.2
12.5°	2071.7	2068.5	2067.2	2066.6	2068.5
15°	2056.2	2054.3	2053.0	2051.7	2053.0
17.5°	2039.4	2036.2	2034.9	2032.3	2034.9
20°	2018.7	2014.2	2012.9	2011.0	2011.6
22.5°	1991.6	1987.7	1985.7	1982.5	1983.8
25°	1959.2	1955.3	1953.4	1950.2	1951.5
27.5°	1921.7	1919.1	1914.6	1912.0	1912.7
30°	1878.4	1875.8	1870.6	1869.3	1869.3
32.5°	1830.6	1827.3	1822.8	1821.5	1820.9
35°	1773.0	1772.4	1767.8	1766.5	1764.6
37.5°	1710.3	1709.0	1703.8	1702.5	1700.6
40°	1633.3	1632.0	1631.4	1628.8	1626.2
42.5°	1544.1	1546.0	1547.3	1542.2	1537.0
45°	1441.3	1443.2	1445.8	1441.9	1434.8
47.5°	1321.0	1328.8	1324.9	1327.5	1320.4
50°	1199.5	1199.5	1193.0	1195.6	1191.7
52.5°	1072.1	1061.7	1054.0	1059.1	1064.3
55°	951.2	930.5	917.5	929.8	944.7
57.5°	835.4	810.8	786.9	806.3	824.4
60°	722.9	694.5	678.9	693.2	718.4
62.5°	616.2	595.5	580.0	591.0	612.3
65°	517.9	499.8	490.1	498.5	515.3
67.5°	428.1	415.8	406.1	413.2	426.1
70°	346.6	343.3	332.4	335.6	343.3
72.5°	272.2	271.6	261.9	264.5	269.0
75°	212.1	207.6	198.5	201.7	203.7
77.5°	150.0	152.0	143.5	145.5	145.5
80°	102.8	106.0	99.6	98.3	98.9
82.5°	65.3	65.3	64.7	64.0	62.1
85°	33.6	34.9	33.6	32.3	32.3
87.5°	12.9	12.9	12.9	12.3	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)