

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: P412419

Luminaire Tested: **22PD-55-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412419
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-L850
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

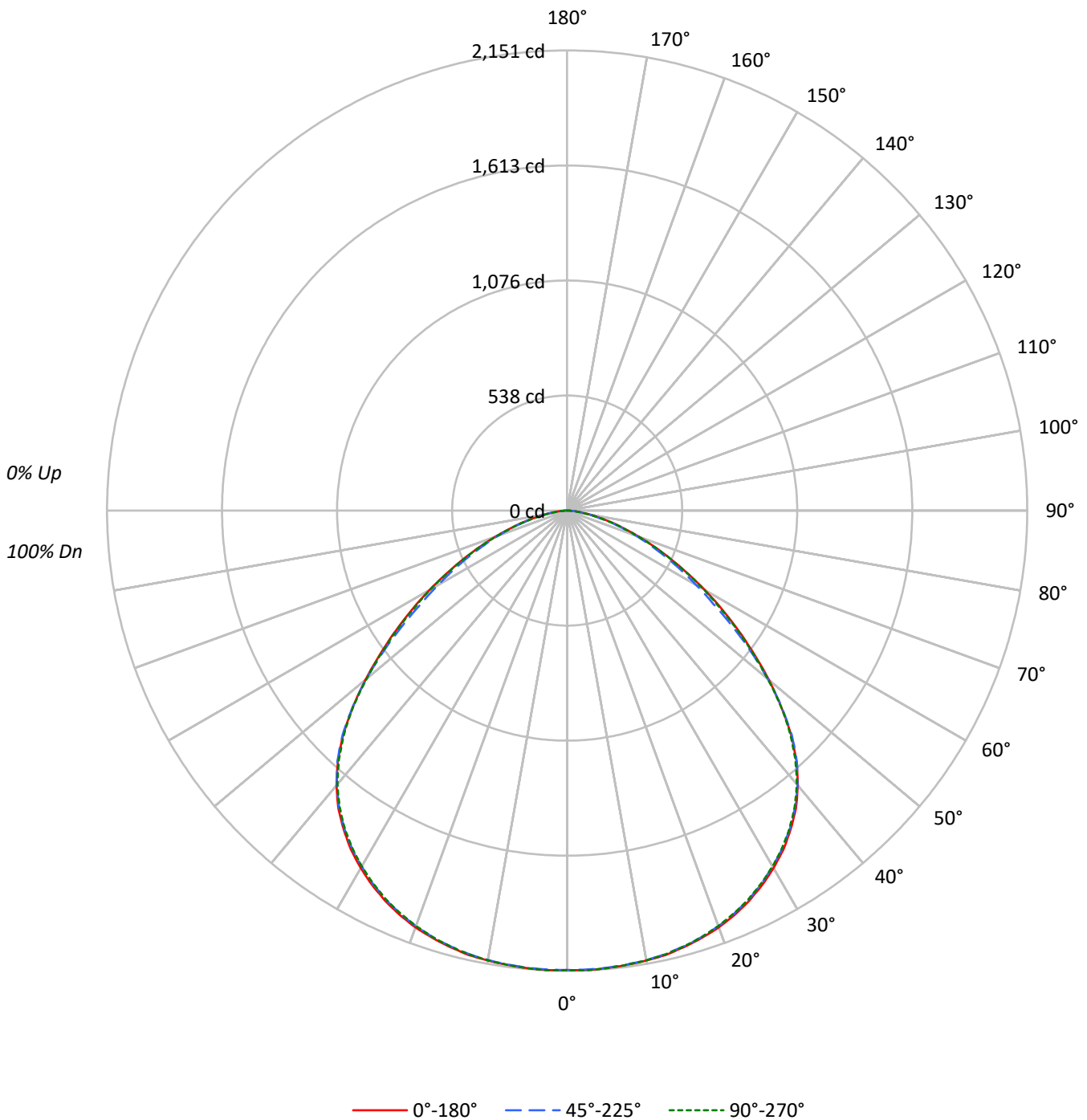
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5639.0 lumens
Efficiency: N/A
Efficacy: 122.1 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): 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°	5780	5780	5780
5°	5799	5793	5800
10°	5836	5829	5833
15°	5884	5875	5875
20°	5938	5921	5917
25°	5975	5957	5951
30°	5995	5970	5966
35°	5982	5965	5954
40°	5893	5886	5868
45°	5634	5652	5609
50°	5158	5130	5124
55°	4584	4421	4552
60°	3996	3753	3971
65°	3387	3205	3370
70°	2801	2686	2775
75°	2264	2120	2175
80°	1636	1585	1574
85°	1065	1065	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.6
10°-20°	596.1	10.6
20°-30°	924.9	16.4
30°-40°	1134.2	20.1
40°-50°	1133.8	20.1
50°-60°	858.8	15.2
60°-70°	515.1	9.1
70°-80°	226.8	4.0
80°-90°	45.0	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°	1725.3	30.6
0°-40°	2859.5	50.7
0°-60°	4852.1	86.0
0°-90°	5639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2147	2144	2145	2144	2147	205
15°	2112	2110	2109	2107	2109	597
25°	2012	2008	2006	2003	2004	928
35°	1821	1820	1816	1814	1812	1137
45°	1480	1482	1485	1481	1474	1133
55°	977	956	942	955	970	876
65°	532	513	503	512	529	532
75°	218	213	204	207	209	232
85°	34	36	34	33	33	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.9	2147.9	2147.9	2147.9	2147.9
2.5°	2149.9	2146.6	2147.2	2147.2	2151.2
5°	2146.6	2143.9	2144.6	2143.9	2147.2
7.5°	2141.9	2139.3	2139.9	2139.3	2141.2
10°	2135.9	2133.3	2133.3	2131.9	2134.6
12.5°	2128.0	2124.6	2123.3	2122.7	2124.6
15°	2112.0	2110.0	2108.7	2107.4	2108.7
17.5°	2094.8	2091.4	2090.1	2087.5	2090.1
20°	2073.5	2068.9	2067.5	2065.5	2066.2
22.5°	2045.6	2041.6	2039.6	2036.3	2037.6
25°	2012.4	2008.4	2006.4	2003.1	2004.4
27.5°	1973.9	1971.2	1966.6	1963.9	1964.6
30°	1929.4	1926.7	1921.4	1920.1	1920.1
32.5°	1880.2	1876.9	1872.3	1870.9	1870.3
35°	1821.1	1820.5	1815.8	1814.5	1812.5
37.5°	1756.7	1755.4	1750.1	1748.7	1746.7
40°	1677.7	1676.3	1675.7	1673.0	1670.4
42.5°	1586.0	1588.0	1589.3	1584.0	1578.7
45°	1480.4	1482.4	1485.1	1481.1	1473.8
47.5°	1356.9	1364.8	1360.9	1363.5	1356.2
50°	1232.0	1232.0	1225.4	1228.0	1224.0
52.5°	1101.2	1090.5	1082.6	1087.9	1093.2
55°	977.0	955.7	942.4	955.1	970.3
57.5°	858.1	832.9	808.3	828.2	846.8
60°	742.5	713.3	697.4	712.0	737.9
62.5°	632.9	611.7	595.8	607.0	629.0
65°	532.0	513.4	503.4	512.1	529.3
67.5°	439.7	427.1	417.1	424.4	437.7
70°	356.0	352.7	341.4	344.7	352.7
72.5°	279.6	278.9	269.0	271.6	276.3
75°	217.8	213.2	203.9	207.2	209.2
77.5°	154.1	156.1	147.4	149.4	149.4
80°	105.6	108.9	102.3	101.0	101.6
82.5°	67.1	67.1	66.4	65.8	63.8
85°	34.5	35.9	34.5	33.2	33.2
87.5°	13.3	13.3	13.3	12.6	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)