

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: P412761

Luminaire Tested: **22PD-55-PP3-L850**

Issue Date: 9/15/2020



**Test Information**

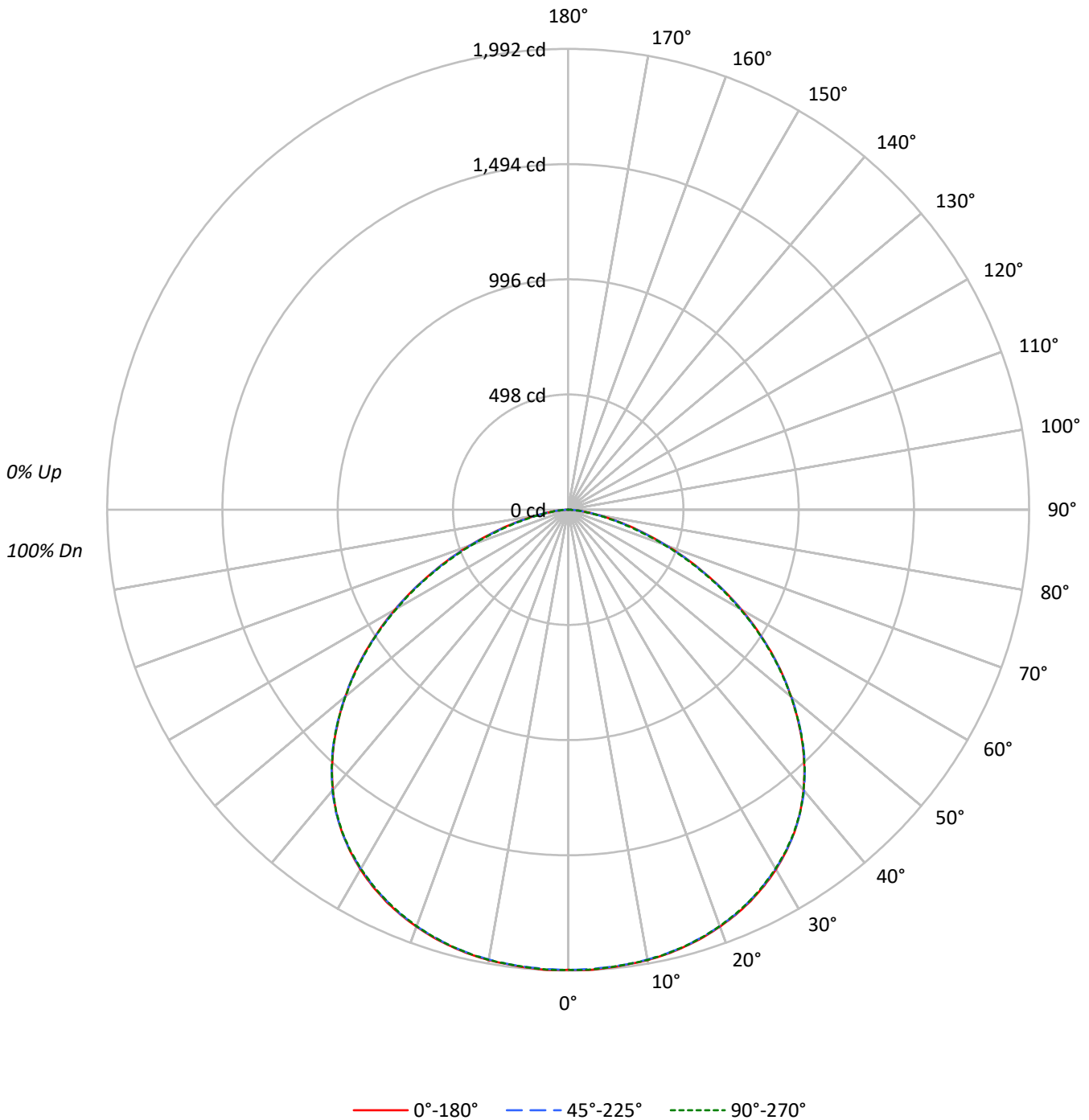
Test Method: LM-79-08  
Report Number: P412761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PP3-L850  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5707.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5353	5353	5353
5°	5370	5363	5366
10°	5403	5395	5399
15°	5445	5440	5440
20°	5493	5487	5485
25°	5541	5532	5532
30°	5580	5570	5568
35°	5596	5596	5590
40°	5560	5571	5560
45°	5449	5464	5457
50°	5266	5274	5261
55°	5013	5001	4992
60°	4654	4643	4607
65°	4157	4153	4106
70°	3553	3533	3454
75°	2831	2748	2666
80°	2018	1976	1874
85°	1312	1312	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	3.3
10°-20°	551.8	9.7
20°-30°	859.2	15.1
30°-40°	1063.4	18.6
40°-50°	1102.7	19.3
50°-60°	950.4	16.7
60°-70°	646.2	11.3
70°-80°	289.1	5.1
80°-90°	55.1	1.0
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°	1600.1	28.0
0°-40°	2663.5	46.7
0°-60°	4716.6	82.6
0°-90°	5707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1988	1984	1985	1984	1986	189
15°	1955	1951	1953	1951	1953	553
25°	1866	1864	1863	1862	1863	861
35°	1704	1702	1704	1701	1702	1064
45°	1432	1431	1436	1433	1434	1102
55°	1069	1065	1066	1064	1064	953
65°	653	658	652	650	645	648
75°	272	273	264	263	256	293
85°	42	44	42	41	41	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1989.1	1989.1	1989.1	1989.1	1989.1
2.5°	1991.8	1987.8	1987.8	1988.5	1990.5
5°	1987.8	1983.8	1985.2	1984.5	1986.5
7.5°	1982.5	1979.2	1981.2	1979.8	1981.2
10°	1977.2	1973.9	1974.5	1973.9	1975.9
12.5°	1967.9	1963.9	1965.2	1965.2	1965.9
15°	1954.6	1951.3	1952.6	1951.3	1952.6
17.5°	1938.7	1934.7	1935.3	1934.7	1936.0
20°	1918.1	1915.4	1916.1	1914.8	1915.4
22.5°	1894.8	1891.5	1892.2	1890.8	1890.8
25°	1866.3	1863.6	1863.0	1862.3	1863.0
27.5°	1833.1	1829.7	1829.7	1829.1	1829.1
30°	1795.9	1792.6	1792.6	1791.9	1791.9
32.5°	1752.0	1750.7	1751.4	1750.0	1749.4
35°	1703.6	1701.6	1703.6	1700.9	1701.6
37.5°	1647.1	1644.4	1648.4	1645.8	1646.4
40°	1582.7	1581.4	1586.0	1584.0	1582.7
42.5°	1511.0	1511.0	1512.9	1513.6	1512.3
45°	1431.9	1430.6	1435.9	1432.6	1433.9
47.5°	1346.9	1344.9	1348.9	1348.2	1347.6
50°	1257.9	1256.6	1259.9	1256.6	1256.6
52.5°	1165.6	1164.9	1165.6	1162.3	1161.6
55°	1068.6	1064.6	1066.0	1064.0	1064.0
57.5°	967.7	963.0	963.7	963.0	963.7
60°	864.7	863.4	862.7	859.4	856.1
62.5°	759.1	760.5	759.8	755.1	751.8
65°	652.9	658.2	652.2	650.2	644.9
67.5°	552.6	554.6	550.6	545.9	540.0
70°	451.6	455.6	449.0	444.3	439.0
72.5°	355.3	358.0	352.0	349.3	342.7
75°	272.3	273.0	264.3	263.0	256.4
77.5°	193.9	196.6	189.9	189.9	183.3
80°	130.2	134.8	127.5	125.5	120.9
82.5°	81.7	82.4	80.4	78.4	76.4
85°	42.5	43.8	42.5	41.2	41.2
87.5°	15.9	16.6	15.9	15.3	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)