

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: P412760

Luminaire Tested: **22PD-55-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

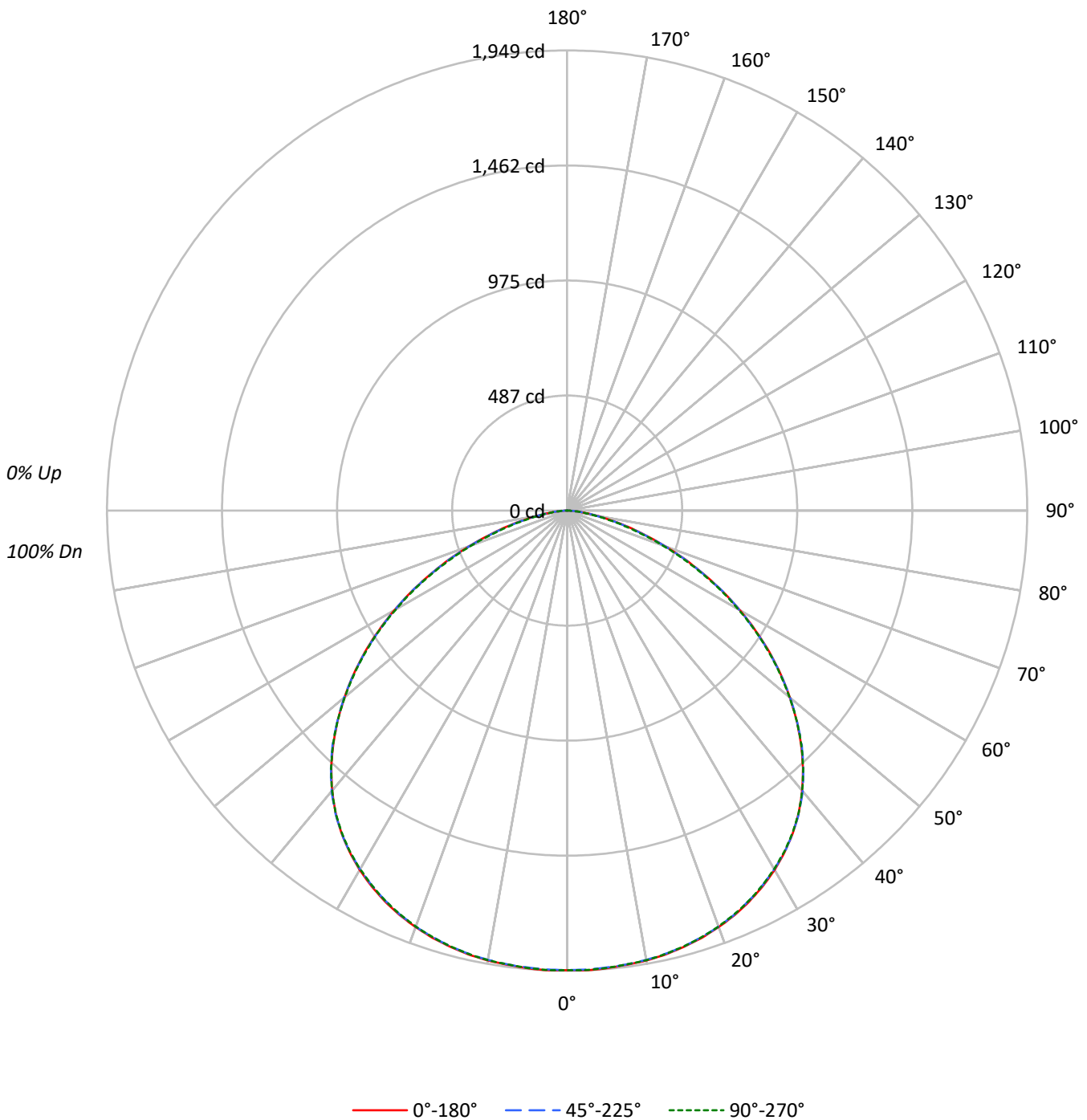
Test Method: LM-79-08  
Report Number: P412760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PP3-L840  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5585.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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°	5238	5238	5238
5°	5255	5248	5251
10°	5287	5280	5284
15°	5329	5324	5324
20°	5375	5370	5368
25°	5423	5413	5413
30°	5461	5451	5449
35°	5477	5477	5470
40°	5441	5452	5441
45°	5333	5348	5340
50°	5153	5162	5148
55°	4906	4894	4885
60°	4554	4544	4509
65°	4068	4064	4018
70°	3478	3457	3380
75°	2771	2690	2609
80°	1974	1934	1833
85°	1284	1284	1244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	3.3
10°-20°	540.0	9.7
20°-30°	840.8	15.1
30°-40°	1040.7	18.6
40°-50°	1079.1	19.3
50°-60°	930.1	16.7
60°-70°	632.4	11.3
70°-80°	283.0	5.1
80°-90°	53.9	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°	1565.9	28.0
0°-40°	2606.6	46.7
0°-60°	4615.8	82.6
0°-90°	5585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1945	1941	1943	1942	1944	185
15°	1913	1910	1911	1910	1911	541
25°	1826	1824	1823	1822	1823	842
35°	1667	1665	1667	1664	1665	1041
45°	1401	1400	1405	1402	1403	1079
55°	1046	1042	1043	1041	1041	932
65°	639	644	638	636	631	634
75°	266	267	259	257	251	287
85°	42	43	42	40	40	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1946.6	1946.6	1946.6	1946.6	1946.6
2.5°	1949.2	1945.3	1945.3	1946.0	1947.9
5°	1945.3	1941.4	1942.7	1942.1	1944.0
7.5°	1940.1	1936.9	1938.8	1937.5	1938.8
10°	1934.9	1931.7	1932.3	1931.7	1933.6
12.5°	1925.8	1921.9	1923.2	1923.2	1923.9
15°	1912.8	1909.6	1910.9	1909.6	1910.9
17.5°	1897.2	1893.3	1894.0	1893.3	1894.6
20°	1877.1	1874.5	1875.1	1873.8	1874.5
22.5°	1854.3	1851.1	1851.7	1850.4	1850.4
25°	1826.4	1823.8	1823.1	1822.5	1823.1
27.5°	1793.9	1790.6	1790.6	1790.0	1790.0
30°	1757.5	1754.2	1754.2	1753.6	1753.6
32.5°	1714.6	1713.3	1713.9	1712.6	1712.0
35°	1667.1	1665.2	1667.1	1664.5	1665.2
37.5°	1611.9	1609.3	1613.2	1610.6	1611.2
40°	1548.8	1547.5	1552.1	1550.1	1548.8
42.5°	1478.7	1478.7	1480.6	1481.3	1480.0
45°	1401.3	1400.0	1405.2	1402.0	1403.3
47.5°	1318.1	1316.2	1320.1	1319.4	1318.8
50°	1231.0	1229.7	1233.0	1229.7	1229.7
52.5°	1140.7	1140.0	1140.7	1137.4	1136.8
55°	1045.8	1041.9	1043.2	1041.2	1041.2
57.5°	947.0	942.4	943.1	942.4	943.1
60°	846.2	844.9	844.3	841.0	837.8
62.5°	742.9	744.2	743.6	739.0	735.8
65°	638.9	644.1	638.3	636.3	631.1
67.5°	540.8	542.7	538.8	534.3	528.4
70°	442.0	445.9	439.4	434.8	429.6
72.5°	347.7	350.3	344.5	341.9	335.4
75°	266.5	267.1	258.7	257.4	250.9
77.5°	189.8	192.4	185.9	185.9	179.4
80°	127.4	131.9	124.8	122.8	118.3
82.5°	79.9	80.6	78.6	76.7	74.7
85°	41.6	42.9	41.6	40.3	40.3
87.5°	15.6	16.2	15.6	14.9	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)