

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: P412447

Luminaire Tested: **22PD-70-PB1-L927**

Issue Date: 9/15/2020



**Test Information**

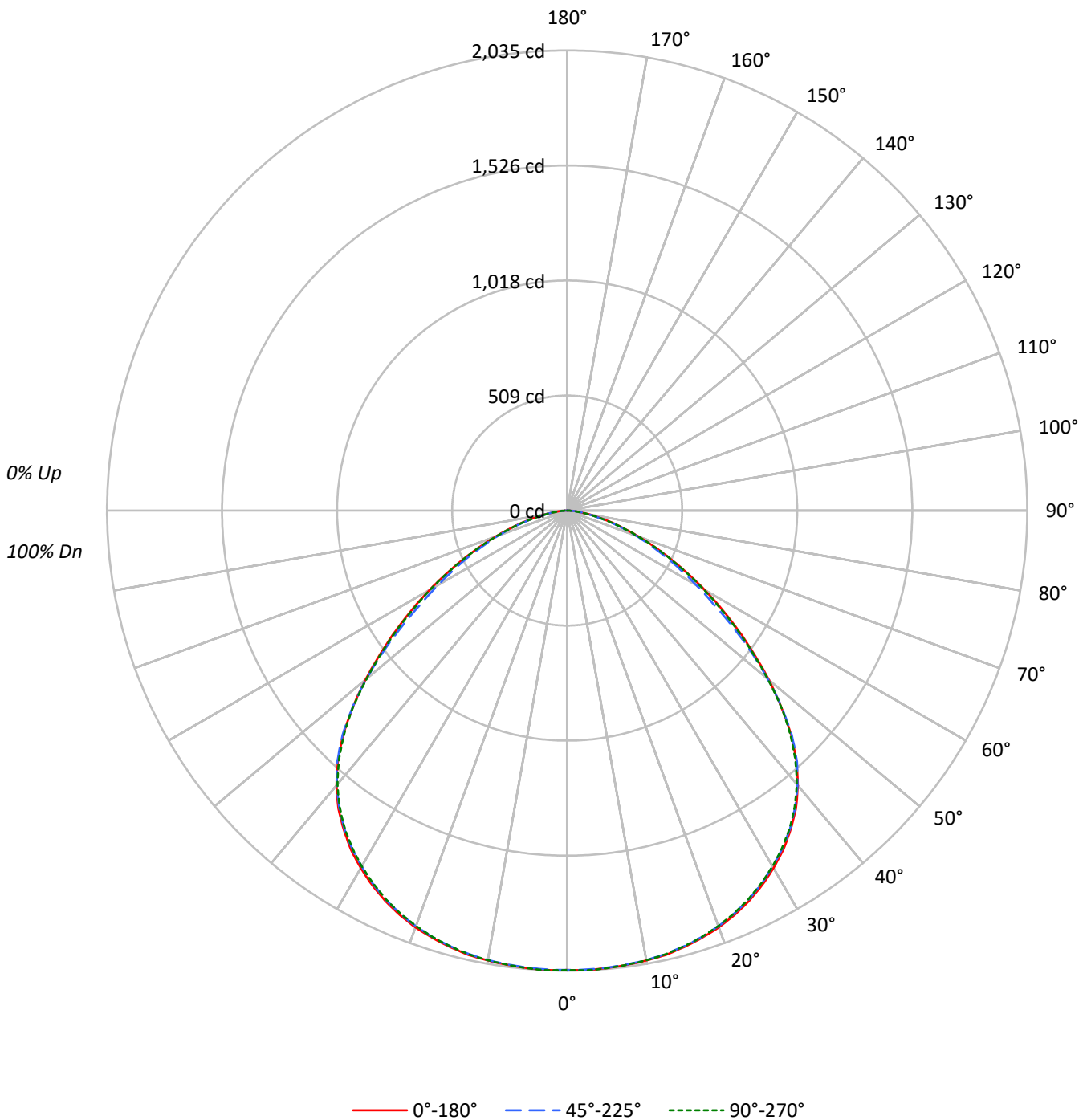
Test Method: LM-79-08  
Report Number: P412447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-70-PB1-L927  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5335.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 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): 63  
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°	5468	5468	5468
5°	5486	5481	5488
10°	5522	5515	5518
15°	5567	5558	5558
20°	5618	5602	5598
25°	5653	5636	5631
30°	5672	5648	5645
35°	5660	5643	5633
40°	5576	5569	5551
45°	5330	5347	5306
50°	4880	4853	4848
55°	4336	4183	4307
60°	3781	3551	3757
65°	3205	3033	3189
70°	2650	2541	2626
75°	2143	2006	2058
80°	1548	1500	1489
85°	1010	1010	969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.4	3.6
10°-20°	563.9	10.6
20°-30°	875.0	16.4
30°-40°	1073.1	20.1
40°-50°	1072.7	20.1
50°-60°	812.5	15.2
60°-70°	487.3	9.1
70°-80°	214.6	4.0
80°-90°	42.6	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°	1632.3	30.6
0°-40°	2705.4	50.7
0°-60°	4590.6	86.0
0°-90°	5335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5335.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2031	2028	2029	2028	2032	194
15°	1998	1996	1995	1994	1995	565
25°	1904	1900	1898	1895	1896	878
35°	1723	1722	1718	1717	1715	1076
45°	1401	1402	1405	1401	1394	1072
55°	924	904	892	904	918	829
65°	503	486	476	484	501	503
75°	206	202	193	196	198	220
85°	33	34	33	31	31	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	2034.0	2030.8	2031.5	2031.5	2035.2
5°	2030.8	2028.3	2029.0	2028.3	2031.5
7.5°	2026.4	2023.9	2024.6	2023.9	2025.8
10°	2020.8	2018.3	2018.3	2017.0	2019.5
12.5°	2013.2	2010.1	2008.8	2008.2	2010.1
15°	1998.2	1996.3	1995.0	1993.8	1995.0
17.5°	1981.8	1978.7	1977.4	1974.9	1977.4
20°	1961.7	1957.3	1956.1	1954.2	1954.8
22.5°	1935.3	1931.6	1929.7	1926.5	1927.8
25°	1903.9	1900.1	1898.3	1895.1	1896.4
27.5°	1867.5	1865.0	1860.6	1858.0	1858.7
30°	1825.4	1822.9	1817.8	1816.6	1816.6
32.5°	1778.9	1775.7	1771.3	1770.1	1769.4
35°	1722.9	1722.3	1717.9	1716.7	1714.8
37.5°	1662.0	1660.7	1655.7	1654.5	1652.6
40°	1587.2	1586.0	1585.3	1582.8	1580.3
42.5°	1500.5	1502.4	1503.7	1498.6	1493.6
45°	1400.6	1402.5	1405.0	1401.2	1394.3
47.5°	1283.7	1291.3	1287.5	1290.0	1283.1
50°	1165.6	1165.6	1159.3	1161.8	1158.1
52.5°	1041.8	1031.8	1024.2	1029.2	1034.3
55°	924.3	904.2	891.6	903.6	918.0
57.5°	811.8	788.0	764.7	783.6	801.2
60°	702.5	674.9	659.8	673.6	698.1
62.5°	598.8	578.7	563.6	574.3	595.1
65°	503.3	485.7	476.3	484.5	500.8
67.5°	416.0	404.0	394.6	401.5	414.1
70°	336.8	333.7	323.0	326.1	333.7
72.5°	264.5	263.9	254.5	257.0	261.4
75°	206.1	201.7	192.9	196.0	197.9
77.5°	145.8	147.7	139.5	141.4	141.4
80°	99.9	103.1	96.8	95.5	96.1
82.5°	63.5	63.5	62.8	62.2	60.3
85°	32.7	33.9	32.7	31.4	31.4
87.5°	12.6	12.6	12.6	11.9	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)