

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: P412416

Luminaire Tested: **22PD-55-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

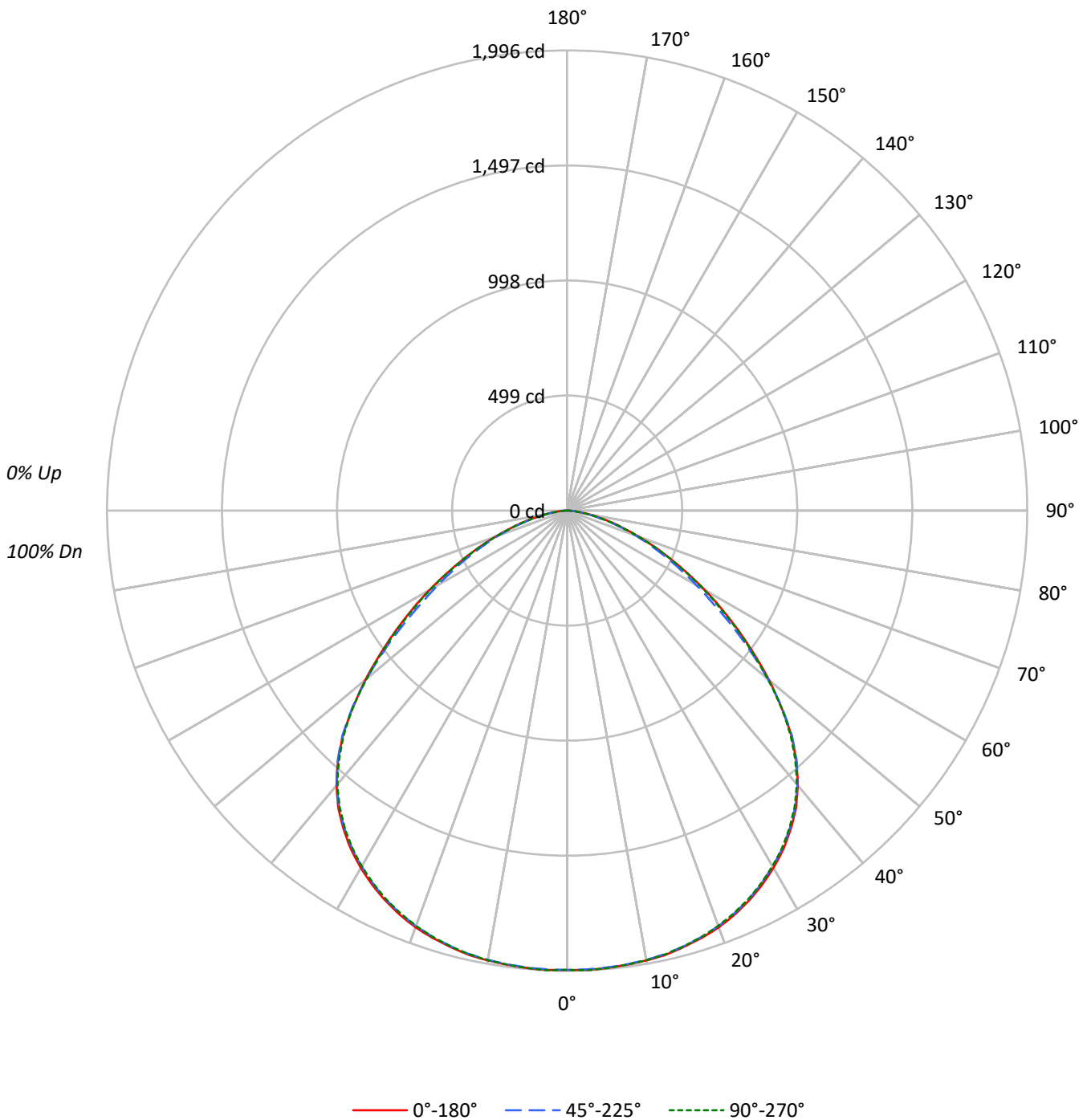
Test Method: LM-79-08  
Report Number: P412416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PB1-L830  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5231.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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°	5362	5362	5362
5°	5379	5374	5381
10°	5414	5407	5411
15°	5458	5450	5450
20°	5508	5492	5489
25°	5543	5527	5521
30°	5561	5538	5535
35°	5550	5533	5523
40°	5467	5460	5443
45°	5226	5243	5203
50°	4785	4759	4754
55°	4252	4102	4223
60°	3707	3482	3684
65°	3142	2974	3126
70°	2598	2492	2574
75°	2101	1966	2018
80°	1519	1471	1461
85°	988	988	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.6	3.6
10°-20°	552.9	10.6
20°-30°	858.0	16.4
30°-40°	1052.1	20.1
40°-50°	1051.7	20.1
50°-60°	796.7	15.2
60°-70°	477.8	9.1
70°-80°	210.4	4.0
80°-90°	41.7	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°	1600.5	30.6
0°-40°	2652.6	50.7
0°-60°	4501.1	86.0
0°-90°	5231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1991	1989	1989	1989	1992	190
15°	1959	1957	1956	1955	1956	554
25°	1867	1863	1861	1858	1859	861
35°	1689	1689	1684	1683	1681	1055
45°	1373	1375	1378	1374	1367	1051
55°	906	887	874	886	900	812
65°	494	476	467	475	491	494
75°	202	198	189	192	194	216
85°	32	33	32	31	31	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1992.5	1992.5	1992.5	1992.5	1992.5
2.5°	1994.3	1991.3	1991.9	1991.9	1995.6
5°	1991.3	1988.8	1989.4	1988.8	1991.9
7.5°	1986.9	1984.5	1985.1	1984.5	1986.3
10°	1981.4	1978.9	1978.9	1977.7	1980.2
12.5°	1974.0	1970.9	1969.7	1969.1	1970.9
15°	1959.2	1957.4	1956.1	1954.9	1956.1
17.5°	1943.2	1940.1	1938.9	1936.4	1938.9
20°	1923.5	1919.2	1917.9	1916.1	1916.7
22.5°	1897.6	1893.9	1892.1	1889.0	1890.2
25°	1866.8	1863.1	1861.3	1858.2	1859.4
27.5°	1831.1	1828.6	1824.3	1821.8	1822.4
30°	1789.8	1787.3	1782.4	1781.2	1781.2
32.5°	1744.2	1741.1	1736.8	1735.6	1735.0
35°	1689.4	1688.7	1684.4	1683.2	1681.3
37.5°	1629.6	1628.4	1623.4	1622.2	1620.4
40°	1556.3	1555.0	1554.4	1552.0	1549.5
42.5°	1471.3	1473.1	1474.3	1469.4	1464.5
45°	1373.3	1375.1	1377.6	1373.9	1367.1
47.5°	1258.7	1266.1	1262.4	1264.9	1258.1
50°	1142.9	1142.9	1136.7	1139.2	1135.5
52.5°	1021.5	1011.6	1004.3	1009.2	1014.1
55°	906.3	886.6	874.3	886.0	900.1
57.5°	796.0	772.6	749.8	768.3	785.5
60°	688.8	661.7	646.9	660.5	684.5
62.5°	587.1	567.4	552.6	563.1	583.5
65°	493.5	476.2	467.0	475.0	491.0
67.5°	407.9	396.2	386.9	393.7	406.0
70°	330.2	327.2	316.7	319.8	327.2
72.5°	259.4	258.8	249.5	252.0	256.3
75°	202.1	197.8	189.1	192.2	194.1
77.5°	142.9	144.8	136.8	138.6	138.6
80°	98.0	101.0	94.9	93.6	94.3
82.5°	62.2	62.2	61.6	61.0	59.1
85°	32.0	33.3	32.0	30.8	30.8
87.5°	12.3	12.3	12.3	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)