

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: P413102

Luminaire Tested: **22PD-55-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-55-PC3-L840
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

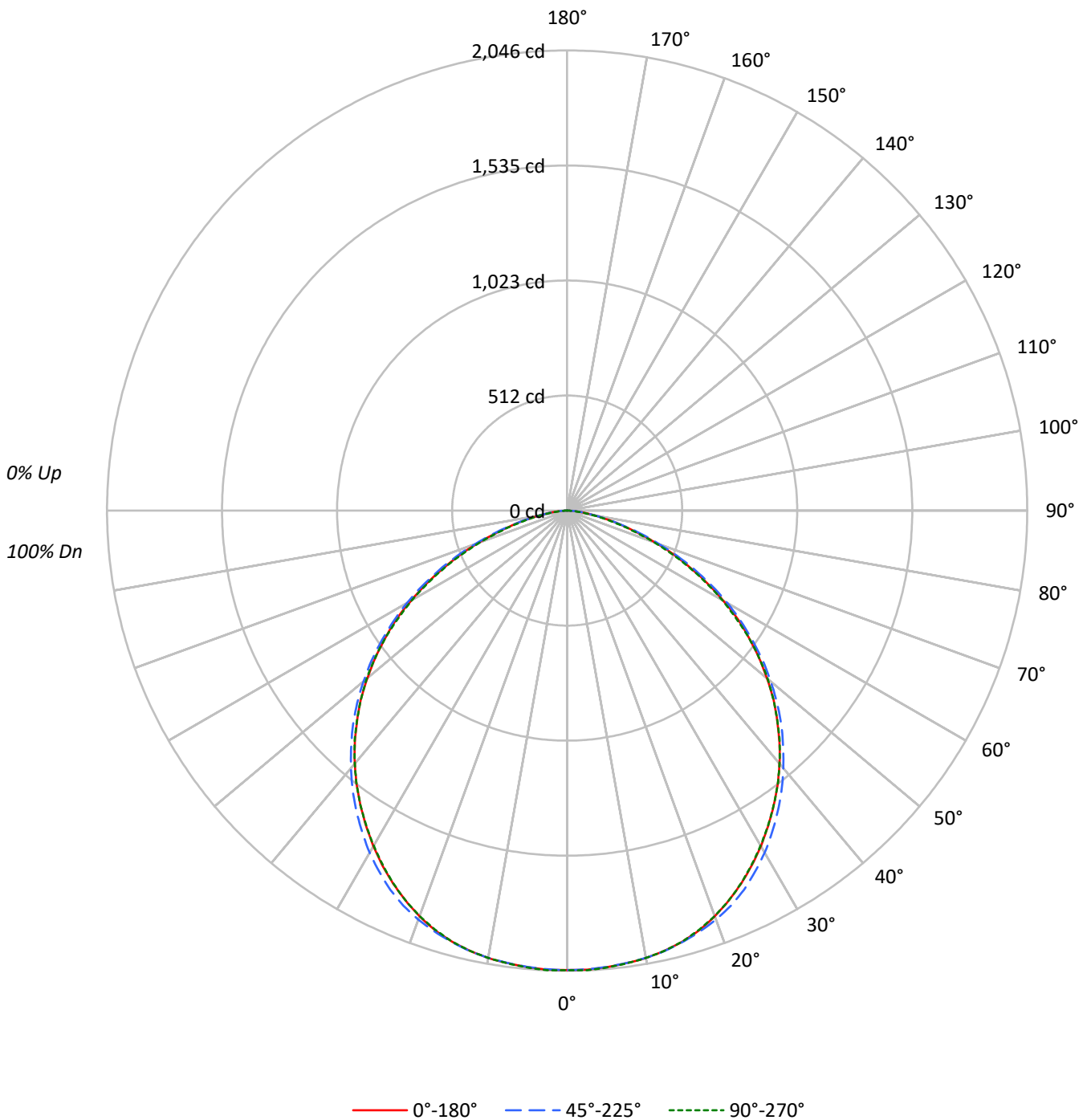
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5498	5498	5498
5°	5505	5502	5509
10°	5519	5517	5519
15°	5526	5533	5524
20°	5497	5542	5494
25°	5434	5523	5430
30°	5353	5458	5345
35°	5260	5365	5260
40°	5162	5253	5162
45°	5026	5124	5033
50°	4854	4949	4873
55°	4628	4720	4628
60°	4316	4425	4288
65°	3873	4010	3824
70°	3313	3431	3216
75°	2628	2703	2493
80°	1883	1954	1793
85°	1244	1284	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	3.5
10°-20°	560.0	10.2
20°-30°	849.5	15.5
30°-40°	1014.6	18.5
40°-50°	1031.8	18.8
50°-60°	892.5	16.3
60°-70°	614.1	11.2
70°-80°	278.7	5.1
80°-90°	54.0	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°	1603.4	29.2
0°-40°	2617.9	47.7
0°-60°	4542.2	82.8
0°-90°	5489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2038	2036	2037	2037	2039	194
15°	1983	1985	1986	1983	1983	559
25°	1830	1846	1860	1843	1829	843
35°	1601	1630	1633	1627	1601	1002
45°	1321	1345	1346	1345	1322	1018
55°	986	1003	1006	1004	986	881
65°	608	625	630	624	600	603
75°	253	263	260	257	240	272
85°	40	43	42	40	38	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.2	2043.2	2043.2	2043.2	2043.2
2.5°	2043.2	2040.6	2041.3	2041.9	2045.8
5°	2038.0	2036.1	2036.7	2036.7	2039.3
7.5°	2029.6	2028.9	2028.9	2028.3	2030.2
10°	2019.8	2018.5	2019.2	2018.5	2019.8
12.5°	2004.9	2004.9	2005.5	2003.6	2004.9
15°	1983.4	1984.7	1986.0	1982.8	1982.8
17.5°	1956.1	1959.4	1962.6	1956.8	1953.5
20°	1919.7	1927.5	1935.3	1926.2	1918.4
22.5°	1877.5	1890.5	1902.2	1887.9	1877.5
25°	1830.1	1846.3	1860.0	1843.1	1828.8
27.5°	1778.7	1796.9	1809.9	1795.6	1776.1
30°	1722.8	1744.9	1756.6	1743.0	1720.2
32.5°	1663.0	1689.0	1696.2	1687.7	1661.7
35°	1601.3	1629.9	1633.1	1627.3	1601.3
37.5°	1537.0	1564.3	1566.9	1563.6	1537.0
40°	1469.4	1494.7	1495.4	1495.4	1469.4
42.5°	1397.2	1421.9	1421.9	1421.3	1399.2
45°	1320.6	1344.6	1346.5	1345.2	1322.5
47.5°	1244.5	1262.7	1266.0	1263.4	1243.2
50°	1159.4	1178.2	1182.1	1179.5	1163.9
52.5°	1074.9	1092.4	1096.3	1094.4	1076.8
55°	986.5	1003.4	1006.0	1004.1	986.5
57.5°	901.4	912.4	915.0	911.1	889.0
60°	801.9	817.5	822.1	817.5	796.8
62.5°	705.8	722.7	726.6	720.1	698.0
65°	608.3	625.2	629.7	624.5	600.5
67.5°	516.0	528.4	532.3	526.4	504.3
70°	421.1	436.7	436.1	428.3	408.8
72.5°	327.5	349.0	345.1	340.5	319.1
75°	252.8	262.6	260.0	257.4	239.8
77.5°	180.7	192.4	185.9	186.5	171.6
80°	121.5	132.6	126.1	123.5	115.7
82.5°	77.3	81.9	80.6	79.3	72.1
85°	40.3	42.9	41.6	40.3	37.7
87.5°	15.6	16.9	15.6	15.6	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)