

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: P413107

Luminaire Tested: **22PD-55-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413107
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-L940
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

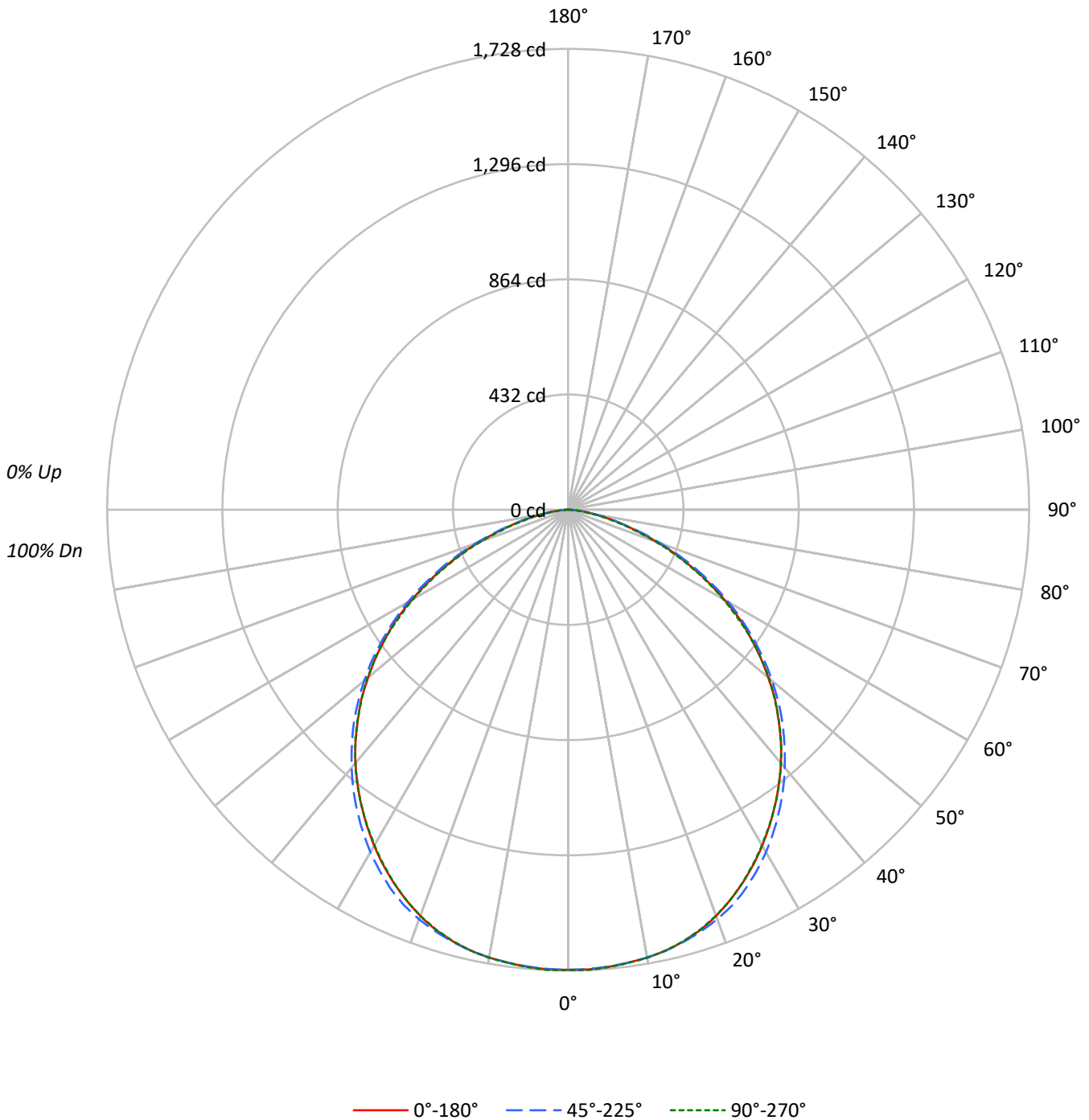
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4635.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

TEST NUMBER: P413107
CATALOG NUMBER: 22PD-55-PC3-L940

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°	4643	4643	4643
5°	4649	4646	4652
10°	4661	4659	4661
15°	4666	4672	4664
20°	4642	4680	4639
25°	4588	4663	4585
30°	4520	4609	4514
35°	4442	4530	4442
40°	4359	4436	4359
45°	4244	4327	4250
50°	4099	4179	4114
55°	3908	3985	3908
60°	3645	3736	3621
65°	3270	3386	3229
70°	2798	2897	2716
75°	2220	2282	2105
80°	1590	1650	1514
85°	1050	1084	982



TEST NUMBER: P413107

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.5
10°-20°	472.8	10.2
20°-30°	717.4	15.5
30°-40°	856.7	18.5
40°-50°	871.3	18.8
50°-60°	753.6	16.3
60°-70°	518.6	11.2
70°-80°	235.4	5.1
80°-90°	45.6	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°	1353.9	29.2
0°-40°	2210.6	47.7
0°-60°	3835.5	82.8
0°-90°	4635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1721	1719	1720	1720	1722	164
15°	1675	1676	1677	1674	1674	472
25°	1545	1559	1571	1556	1544	712
35°	1352	1376	1379	1374	1352	846
45°	1115	1135	1137	1136	1117	860
55°	833	847	850	848	833	744
65°	514	528	532	527	507	510
75°	214	222	220	217	202	230
85°	34	36	35	34	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.3	1725.3	1725.3	1725.3	1725.3
2.5°	1725.3	1723.1	1723.7	1724.2	1727.5
5°	1720.9	1719.3	1719.8	1719.8	1722.0
7.5°	1713.8	1713.3	1713.3	1712.7	1714.3
10°	1705.6	1704.5	1705.0	1704.5	1705.6
12.5°	1692.9	1692.9	1693.5	1691.9	1692.9
15°	1674.8	1675.9	1677.0	1674.3	1674.3
17.5°	1651.8	1654.5	1657.3	1652.3	1649.6
20°	1621.1	1627.6	1634.2	1626.5	1620.0
22.5°	1585.4	1596.4	1606.2	1594.2	1585.4
25°	1545.3	1559.0	1570.6	1556.3	1544.2
27.5°	1502.0	1517.3	1528.3	1516.2	1499.8
30°	1454.8	1473.4	1483.3	1471.8	1452.6
32.5°	1404.3	1426.2	1432.3	1425.1	1403.2
35°	1352.2	1376.3	1379.1	1374.1	1352.2
37.5°	1297.8	1320.9	1323.1	1320.3	1297.8
40°	1240.8	1262.2	1262.7	1262.7	1240.8
42.5°	1179.9	1200.7	1200.7	1200.2	1181.5
45°	1115.1	1135.4	1137.0	1135.9	1116.7
47.5°	1050.9	1066.3	1069.0	1066.8	1049.8
50°	979.0	994.9	998.2	996.0	982.8
52.5°	907.7	922.5	925.8	924.1	909.3
55°	833.0	847.3	849.5	847.8	833.0
57.5°	761.1	770.5	772.7	769.4	750.7
60°	677.2	690.3	694.2	690.3	672.8
62.5°	596.0	610.2	613.5	608.0	589.4
65°	513.6	527.9	531.8	527.4	507.1
67.5°	435.7	446.1	449.4	444.5	425.8
70°	355.6	368.8	368.2	361.6	345.2
72.5°	276.6	294.7	291.4	287.6	269.4
75°	213.5	221.7	219.5	217.3	202.5
77.5°	152.6	162.4	156.9	157.5	144.9
80°	102.6	111.9	106.5	104.3	97.7
82.5°	65.3	69.1	68.0	66.9	60.9
85°	34.0	36.2	35.1	34.0	31.8
87.5°	13.2	14.3	13.2	13.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)