

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: P413105

Luminaire Tested: **22PD-55-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413105
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-L930
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

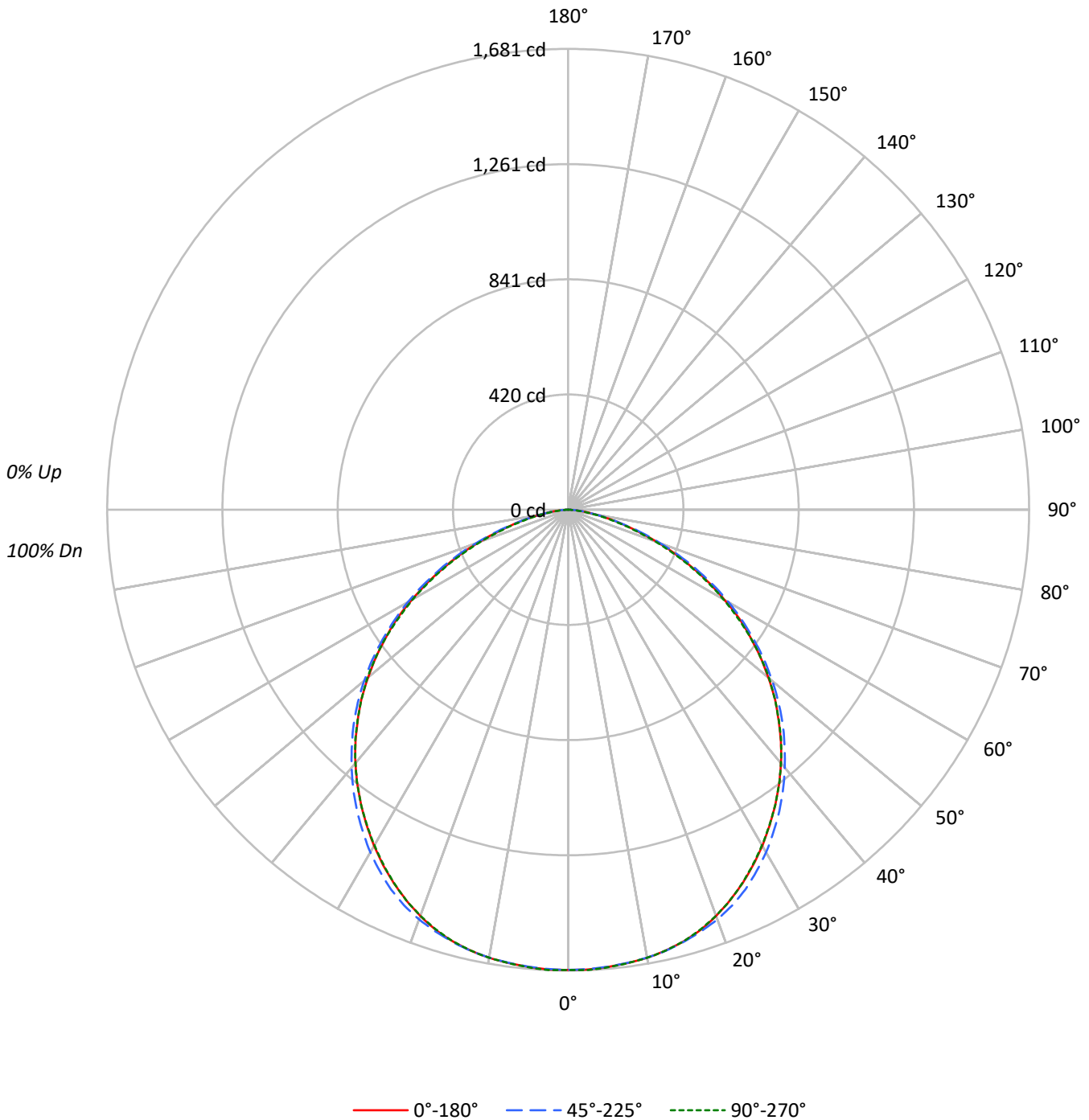
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4510.0 lumens
Efficiency: N/A
Efficacy: 97.6 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: P413105
CATALOG NUMBER: 22PD-55-PC3-L930

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°	4518	4518	4518
5°	4523	4521	4526
10°	4535	4533	4535
15°	4540	4546	4539
20°	4517	4554	4514
25°	4465	4537	4461
30°	4398	4485	4392
35°	4322	4408	4322
40°	4241	4316	4241
45°	4129	4211	4135
50°	3988	4066	4003
55°	3803	3878	3803
60°	3546	3636	3523
65°	3182	3294	3142
70°	2722	2819	2643
75°	2159	2221	2048
80°	1548	1605	1472
85°	1022	1056	957



TEST NUMBER: P413105

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.5
10°-20°	460.1	10.2
20°-30°	698.0	15.5
30°-40°	833.6	18.5
40°-50°	847.8	18.8
50°-60°	733.3	16.3
60°-70°	504.6	11.2
70°-80°	229.0	5.1
80°-90°	44.3	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°	1317.4	29.2
0°-40°	2151.0	47.7
0°-60°	3732.1	82.8
0°-90°	4510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1674	1673	1674	1674	1676	159
15°	1630	1631	1632	1629	1629	460
25°	1504	1517	1528	1514	1503	693
35°	1316	1339	1342	1337	1316	823
45°	1085	1105	1106	1105	1087	837
55°	811	824	827	825	811	724
65°	500	514	517	513	493	496
75°	208	216	214	212	197	223
85°	33	35	34	33	31	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.8	1678.8	1678.8	1678.8	1678.8
2.5°	1678.8	1676.7	1677.2	1677.7	1680.9
5°	1674.5	1672.9	1673.5	1673.5	1675.6
7.5°	1667.6	1667.0	1667.0	1666.5	1668.1
10°	1659.6	1658.5	1659.0	1658.5	1659.6
12.5°	1647.3	1647.3	1647.8	1646.2	1647.3
15°	1629.7	1630.7	1631.8	1629.1	1629.1
17.5°	1607.2	1609.9	1612.6	1607.8	1605.1
20°	1577.3	1583.7	1590.2	1582.7	1576.3
22.5°	1542.6	1553.3	1562.9	1551.2	1542.6
25°	1503.7	1517.0	1528.2	1514.3	1502.6
27.5°	1461.5	1476.4	1487.1	1475.4	1459.3
30°	1415.5	1433.7	1443.3	1432.1	1413.4
32.5°	1366.4	1387.8	1393.7	1386.7	1365.4
35°	1315.7	1339.2	1341.9	1337.1	1315.7
37.5°	1262.8	1285.3	1287.4	1284.7	1262.8
40°	1207.3	1228.1	1228.7	1228.7	1207.3
42.5°	1148.0	1168.3	1168.3	1167.8	1149.6
45°	1085.0	1104.8	1106.4	1105.3	1086.6
47.5°	1022.5	1037.5	1040.2	1038.0	1021.5
50°	952.6	968.1	971.3	969.2	956.3
52.5°	883.2	897.6	900.8	899.2	884.8
55°	810.6	824.4	826.6	825.0	810.6
57.5°	740.6	749.7	751.8	748.6	730.5
60°	658.9	671.7	675.5	671.7	654.6
62.5°	579.9	593.8	597.0	591.6	573.5
65°	499.8	513.7	517.4	513.1	493.4
67.5°	424.0	434.1	437.3	432.5	414.4
70°	346.0	358.8	358.3	351.9	335.9
72.5°	269.1	286.7	283.5	279.8	262.2
75°	207.7	215.7	213.6	211.5	197.0
77.5°	148.4	158.1	152.7	153.2	141.0
80°	99.9	108.9	103.6	101.5	95.0
82.5°	63.5	67.3	66.2	65.1	59.3
85°	33.1	35.2	34.2	33.1	31.0
87.5°	12.8	13.9	12.8	12.8	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)