

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: P413104

Luminaire Tested: **22PD-55-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413104
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-L927
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

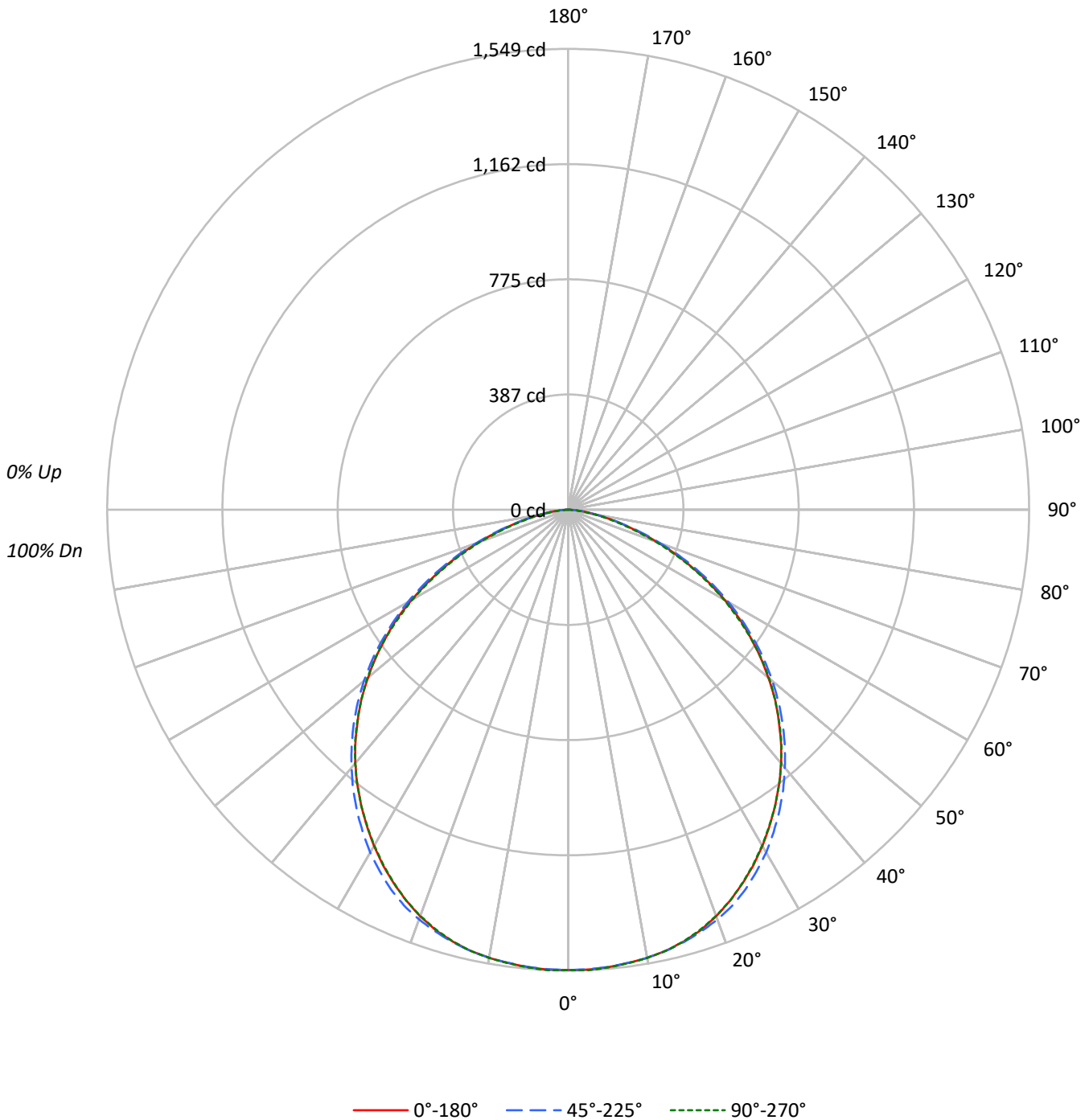
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4157.0 lumens
Efficiency: N/A
Efficacy: 90.0 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°	4164	4164	4164
5°	4169	4167	4172
10°	4180	4179	4180
15°	4185	4190	4183
20°	4164	4197	4161
25°	4115	4182	4112
30°	4054	4134	4048
35°	3984	4063	3984
40°	3909	3978	3909
45°	3806	3881	3812
50°	3676	3748	3690
55°	3505	3575	3505
60°	3268	3351	3247
65°	2933	3037	2896
70°	2509	2598	2436
75°	1991	2047	1888
80°	1426	1480	1358
85°	942	973	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	3.5
10°-20°	424.1	10.2
20°-30°	643.4	15.5
30°-40°	768.4	18.5
40°-50°	781.4	18.8
50°-60°	675.9	16.3
60°-70°	465.1	11.2
70°-80°	211.1	5.1
80°-90°	40.8	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°	1214.3	29.2
0°-40°	1982.6	47.7
0°-60°	3440.0	82.8
0°-90°	4157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1544	1542	1542	1542	1544	147
15°	1502	1503	1504	1502	1502	424
25°	1386	1398	1409	1396	1385	638
35°	1213	1234	1237	1232	1213	759
45°	1000	1018	1020	1019	1002	771
55°	747	760	762	760	747	668
65°	461	474	477	473	455	457
75°	192	199	197	195	182	206
85°	30	32	32	30	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	1547.4	1545.4	1545.9	1546.4	1549.4
5°	1543.5	1542.0	1542.5	1542.5	1544.4
7.5°	1537.1	1536.6	1536.6	1536.1	1537.6
10°	1529.7	1528.7	1529.2	1528.7	1529.7
12.5°	1518.4	1518.4	1518.8	1517.4	1518.4
15°	1502.1	1503.1	1504.1	1501.6	1501.6
17.5°	1481.4	1483.9	1486.4	1481.9	1479.5
20°	1453.9	1459.8	1465.7	1458.8	1452.9
22.5°	1421.9	1431.7	1440.6	1429.8	1421.9
25°	1386.0	1398.3	1408.6	1395.8	1385.0
27.5°	1347.1	1360.9	1370.7	1359.9	1345.1
30°	1304.8	1321.5	1330.3	1320.0	1302.8
32.5°	1259.5	1279.2	1284.6	1278.2	1258.5
35°	1212.7	1234.4	1236.8	1232.4	1212.7
37.5°	1164.0	1184.7	1186.6	1184.2	1164.0
40°	1112.8	1132.0	1132.5	1132.5	1112.8
42.5°	1058.2	1076.9	1076.9	1076.4	1059.7
45°	1000.1	1018.3	1019.8	1018.8	1001.6
47.5°	942.5	956.3	958.8	956.8	941.5
50°	878.0	892.3	895.3	893.3	881.5
52.5°	814.1	827.3	830.3	828.8	815.5
55°	747.1	759.9	761.9	760.4	747.1
57.5°	682.6	691.0	693.0	690.0	673.3
60°	607.3	619.2	622.6	619.2	603.4
62.5°	534.5	547.3	550.3	545.3	528.6
65°	460.7	473.5	476.9	473.0	454.8
67.5°	390.8	400.1	403.1	398.7	381.9
70°	318.9	330.7	330.2	324.3	309.6
72.5°	248.1	264.3	261.3	257.9	241.7
75°	191.5	198.8	196.9	194.9	181.6
77.5°	136.8	145.7	140.8	141.3	129.9
80°	92.0	100.4	95.5	93.5	87.6
82.5°	58.6	62.0	61.0	60.0	54.6
85°	30.5	32.5	31.5	30.5	28.5
87.5°	11.8	12.8	11.8	11.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)