

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: P412881

Luminaire Tested: **24PD-55-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PP3-L935
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

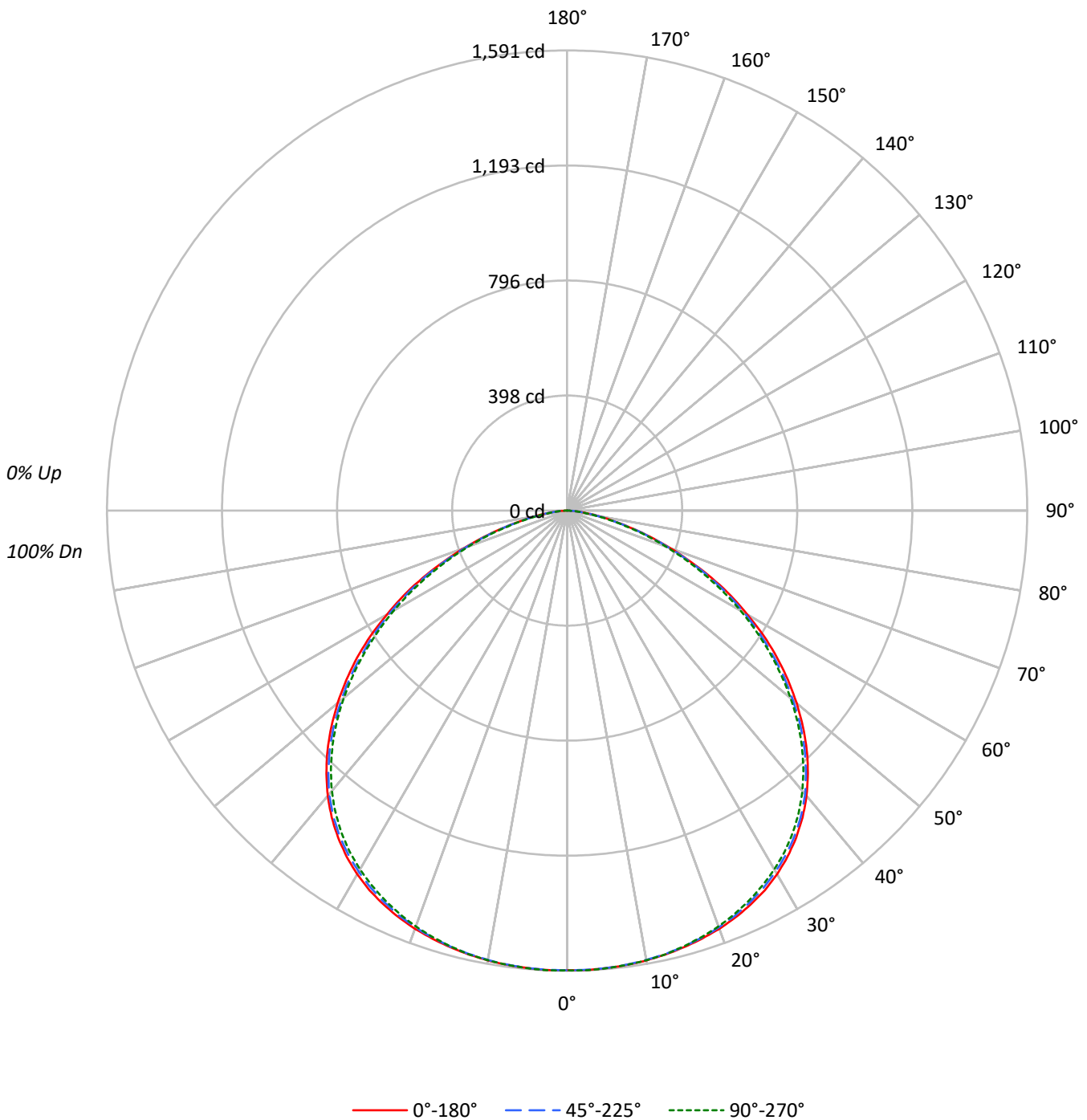
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.7
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2139	2139	2139
5°	2144	2144	2145
10°	2158	2155	2157
15°	2177	2174	2172
20°	2203	2196	2191
25°	2231	2219	2209
30°	2255	2240	2225
35°	2268	2254	2234
40°	2262	2248	2223
45°	2230	2207	2183
50°	2168	2133	2111
55°	2078	2029	2003
60°	1936	1903	1864
65°	1755	1720	1670
70°	1498	1471	1424
75°	1170	1158	1103
80°	863	828	781
85°	520	520	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.3
10°-20°	441.3	9.5
20°-30°	689.7	14.9
30°-40°	857.2	18.5
40°-50°	893.1	19.3
50°-60°	775.0	16.8
60°-70°	532.9	11.5
70°-80°	240.5	5.2
80°-90°	44.1	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°	1282.2	27.7
0°-40°	2139.4	46.3
0°-60°	3807.5	82.3
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1588	1588	1587	1586	1588	151
15°	1563	1563	1560	1559	1559	442
25°	1503	1502	1495	1489	1488	693
35°	1381	1381	1372	1364	1360	863
45°	1172	1172	1160	1151	1147	902
55°	886	881	865	855	854	790
65°	551	549	540	527	525	544
75°	225	226	223	217	212	245
85°	34	33	34	33	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.5	1589.5	1589.5	1589.5	1589.5
2.5°	1589.9	1589.9	1589.0	1587.6	1590.9
5°	1587.6	1588.1	1587.2	1585.8	1588.1
7.5°	1584.4	1584.9	1583.5	1582.1	1583.9
10°	1579.3	1578.8	1577.5	1576.5	1578.8
12.5°	1571.9	1571.5	1570.1	1569.1	1571.0
15°	1562.7	1562.7	1560.4	1559.0	1559.4
17.5°	1551.6	1551.6	1548.3	1545.1	1546.0
20°	1538.6	1538.2	1533.6	1530.3	1529.9
22.5°	1522.5	1522.5	1516.0	1511.8	1510.4
25°	1502.6	1502.1	1494.7	1488.7	1487.8
27.5°	1479.9	1479.0	1470.2	1464.2	1461.9
30°	1451.7	1450.8	1441.6	1435.1	1432.3
32.5°	1418.5	1419.9	1409.2	1401.8	1399.1
35°	1380.6	1380.6	1372.2	1364.4	1359.8
37.5°	1337.1	1337.1	1329.3	1321.4	1315.9
40°	1287.7	1288.1	1279.8	1270.1	1265.5
42.5°	1232.2	1233.1	1222.0	1214.2	1209.1
45°	1171.7	1172.1	1160.1	1151.3	1147.2
47.5°	1106.0	1105.1	1091.7	1084.3	1080.1
50°	1035.8	1033.9	1019.1	1012.2	1008.5
52.5°	962.3	958.6	945.6	935.5	932.2
55°	886.0	880.9	864.8	854.6	853.7
57.5°	806.5	800.5	787.1	777.4	773.7
60°	719.6	718.2	707.2	695.6	692.8
62.5°	638.3	634.1	624.4	610.6	609.2
65°	551.4	549.1	540.3	527.4	524.6
67.5°	461.7	464.0	456.6	445.1	441.4
70°	380.8	382.2	373.9	363.3	361.9
72.5°	299.5	301.8	294.9	287.9	286.6
75°	225.1	226.0	222.8	216.8	212.1
77.5°	159.9	163.2	159.5	155.3	151.6
80°	111.4	106.3	106.8	104.9	100.8
82.5°	67.0	64.7	64.2	62.4	60.5
85°	33.7	33.3	33.7	33.3	31.4
87.5°	11.1	12.0	12.5	12.5	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)