

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: P412880

Luminaire Tested: **24PD-55-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412880
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-L930
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

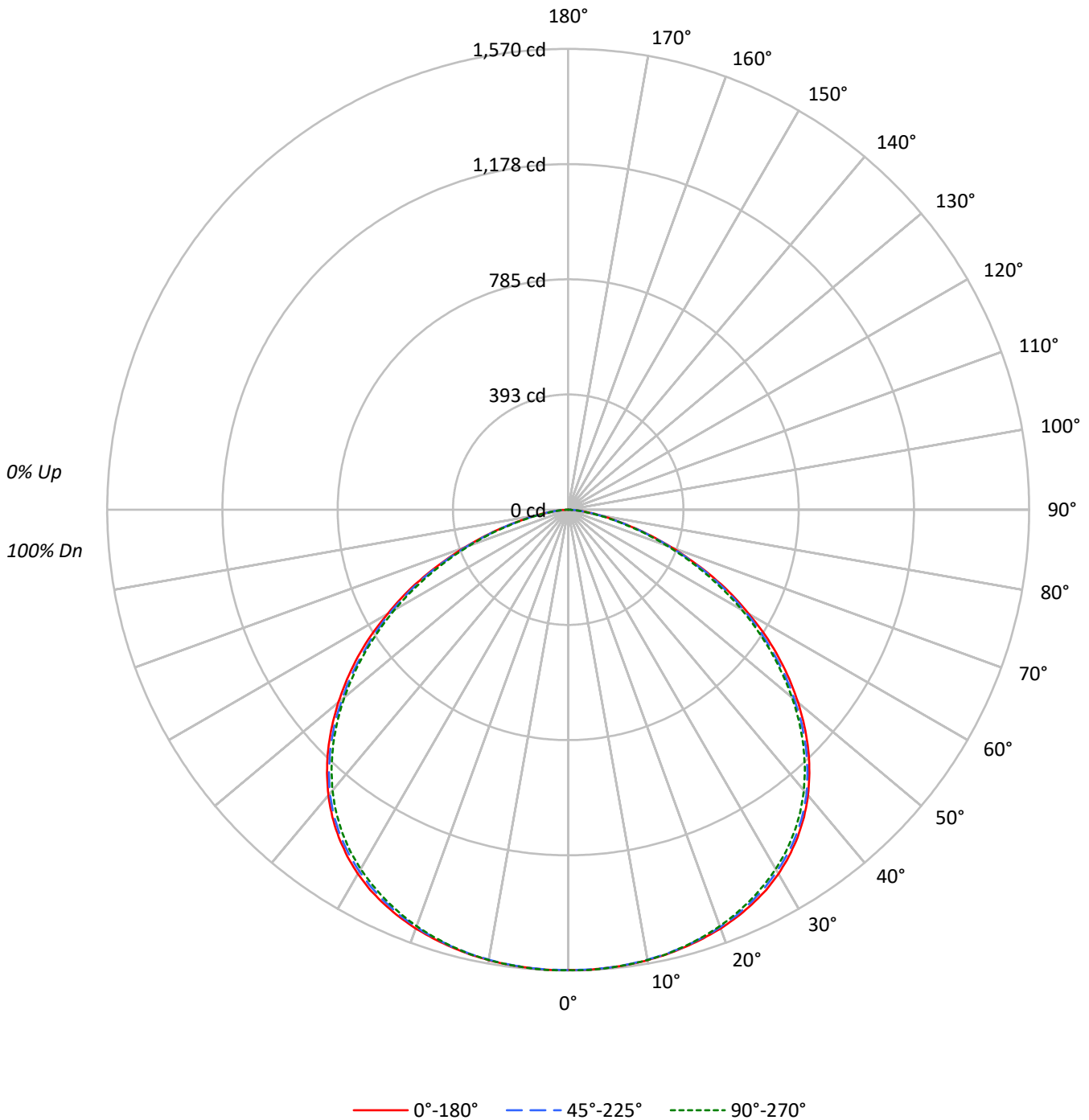
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564.0 lumens
Efficiency: N/A
Efficacy: 109.4 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 (A_{in}): 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°	2110	2110	2110
5°	2116	2115	2117
10°	2129	2127	2129
15°	2148	2145	2144
20°	2174	2167	2162
25°	2201	2190	2180
30°	2226	2210	2196
35°	2238	2224	2204
40°	2232	2218	2193
45°	2200	2178	2154
50°	2139	2105	2083
55°	2051	2002	1976
60°	1911	1878	1840
65°	1732	1698	1648
70°	1478	1452	1405
75°	1155	1143	1088
80°	852	817	770
85°	514	514	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	3.3
10°-20°	435.5	9.5
20°-30°	680.6	14.9
30°-40°	845.9	18.5
40°-50°	881.4	19.3
50°-60°	764.8	16.8
60°-70°	525.9	11.5
70°-80°	237.3	5.2
80°-90°	43.5	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°	1265.3	27.7
0°-40°	2111.2	46.3
0°-60°	3757.3	82.3
0°-90°	4564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1567	1567	1566	1565	1567	149
15°	1542	1542	1540	1538	1539	436
25°	1483	1482	1475	1469	1468	684
35°	1362	1362	1354	1346	1342	851
45°	1156	1157	1145	1136	1132	890
55°	874	869	853	843	842	779
65°	544	542	533	520	518	537
75°	222	223	220	214	209	242
85°	33	33	33	33	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1569.0	1569.0	1568.1	1566.7	1569.9
5°	1566.7	1567.1	1566.2	1564.9	1567.1
7.5°	1563.5	1564.0	1562.6	1561.2	1563.0
10°	1558.5	1558.0	1556.7	1555.7	1558.0
12.5°	1551.2	1550.7	1549.4	1548.4	1550.3
15°	1542.1	1542.1	1539.8	1538.4	1538.9
17.5°	1531.1	1531.1	1527.9	1524.7	1525.6
20°	1518.3	1517.9	1513.3	1510.1	1509.7
22.5°	1502.4	1502.4	1496.0	1491.9	1490.5
25°	1482.8	1482.3	1475.0	1469.1	1468.2
27.5°	1460.4	1459.5	1450.8	1444.9	1442.6
30°	1432.6	1431.7	1422.6	1416.2	1413.4
32.5°	1399.8	1401.1	1390.6	1383.3	1380.6
35°	1362.4	1362.4	1354.1	1346.4	1341.8
37.5°	1319.5	1319.5	1311.7	1304.0	1298.5
40°	1270.7	1271.1	1262.9	1253.4	1248.8
42.5°	1216.0	1216.9	1205.9	1198.2	1193.1
45°	1156.2	1156.7	1144.8	1136.1	1132.0
47.5°	1091.4	1090.5	1077.3	1070.0	1065.9
50°	1022.1	1020.3	1005.7	998.9	995.2
52.5°	949.6	945.9	933.2	923.1	919.9
55°	874.3	869.3	853.4	843.3	842.4
57.5°	795.9	790.0	776.7	767.2	763.5
60°	710.1	708.8	697.8	686.4	683.7
62.5°	629.9	625.8	616.2	602.5	601.1
65°	544.1	541.8	533.2	520.4	517.7
67.5°	455.6	457.9	450.6	439.2	435.6
70°	375.8	377.2	369.0	358.5	357.1
72.5°	295.6	297.8	291.0	284.1	282.8
75°	222.1	223.0	219.8	213.9	209.3
77.5°	157.8	161.0	157.4	153.2	149.6
80°	109.9	104.9	105.4	103.5	99.4
82.5°	66.1	63.9	63.4	61.6	59.7
85°	33.3	32.8	33.3	32.8	31.0
87.5°	10.9	11.9	12.3	12.3	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)