

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: P412882

Luminaire Tested: **24PD-55-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412882
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-L940
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

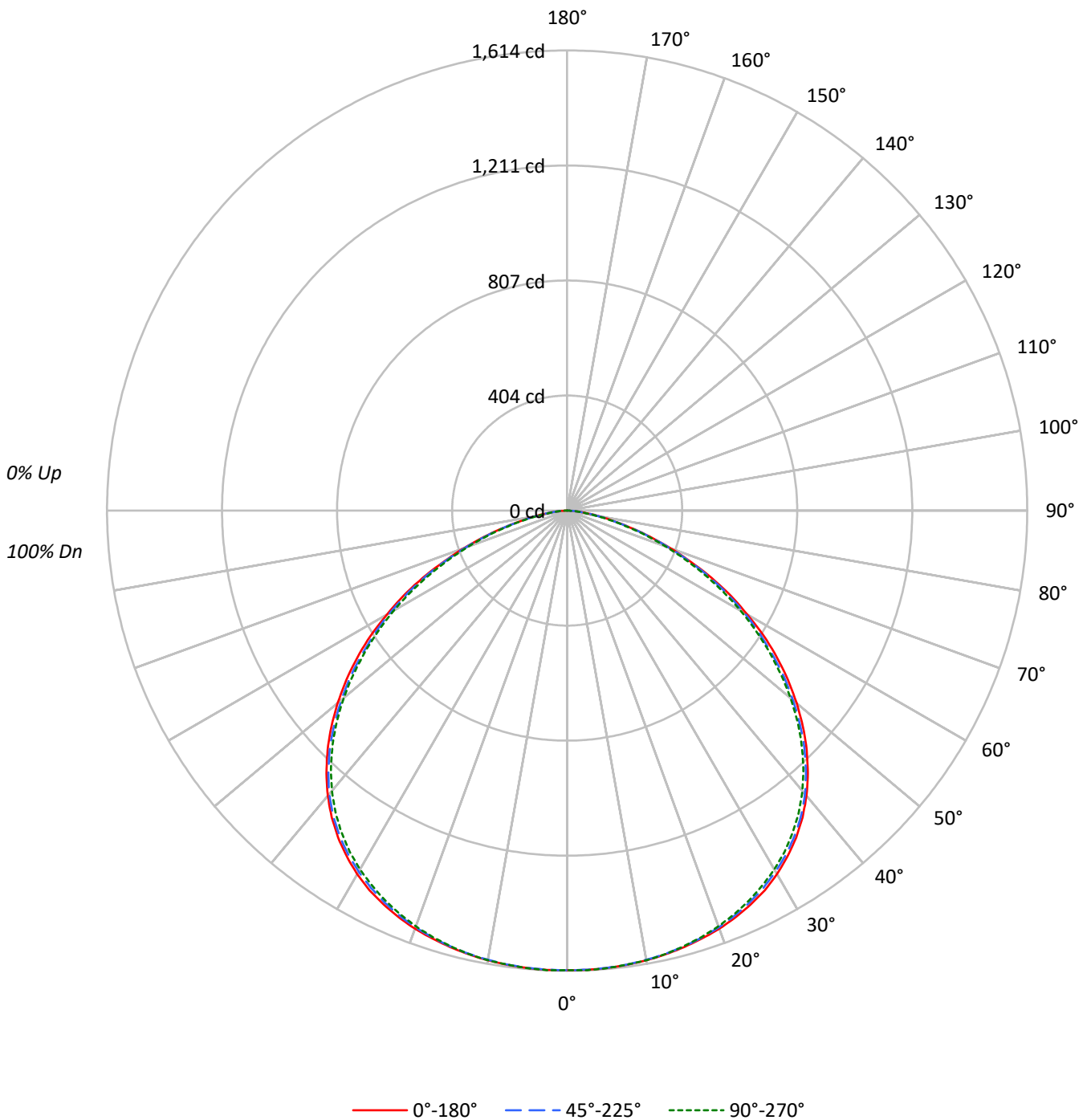
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4691.0 lumens
Efficiency: N/A
Efficacy: 112.5 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°	2169	2169	2169
5°	2175	2174	2176
10°	2188	2186	2188
15°	2208	2204	2203
20°	2235	2227	2222
25°	2263	2251	2240
30°	2288	2272	2257
35°	2300	2286	2265
40°	2294	2280	2254
45°	2261	2239	2214
50°	2199	2164	2141
55°	2108	2057	2031
60°	1964	1930	1891
65°	1781	1745	1694
70°	1520	1492	1444
75°	1187	1175	1119
80°	876	839	792
85°	528	528	492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	3.3
10°-20°	447.6	9.5
20°-30°	699.6	14.9
30°-40°	869.4	18.5
40°-50°	905.9	19.3
50°-60°	786.1	16.8
60°-70°	540.5	11.5
70°-80°	243.9	5.2
80°-90°	44.7	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°	1300.5	27.7
0°-40°	2169.9	46.3
0°-60°	3861.9	82.3
0°-90°	4691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1610	1611	1610	1608	1611	153
15°	1585	1585	1583	1581	1582	448
25°	1524	1524	1516	1510	1509	703
35°	1400	1400	1392	1384	1379	875
45°	1188	1189	1177	1168	1164	915
55°	899	894	877	867	866	801
65°	559	557	548	535	532	552
75°	228	229	226	220	215	249
85°	34	34	34	34	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.2	1612.2	1612.2	1612.2	1612.2
2.5°	1612.6	1612.6	1611.7	1610.3	1613.6
5°	1610.3	1610.8	1609.8	1608.4	1610.8
7.5°	1607.0	1607.5	1606.1	1604.7	1606.5
10°	1601.8	1601.4	1600.0	1599.0	1601.4
12.5°	1594.3	1593.9	1592.5	1591.5	1593.4
15°	1585.0	1585.0	1582.6	1581.2	1581.7
17.5°	1573.7	1573.7	1570.4	1567.2	1568.1
20°	1560.6	1560.1	1555.4	1552.2	1551.7
22.5°	1544.2	1544.2	1537.6	1533.4	1532.0
25°	1524.0	1523.6	1516.1	1510.0	1509.0
27.5°	1501.1	1500.1	1491.2	1485.1	1482.8
30°	1472.5	1471.5	1462.1	1455.6	1452.8
32.5°	1438.7	1440.1	1429.3	1421.8	1419.0
35°	1400.3	1400.3	1391.8	1383.9	1379.2
37.5°	1356.2	1356.2	1348.2	1340.3	1334.6
40°	1306.0	1306.5	1298.1	1288.2	1283.5
42.5°	1249.8	1250.7	1239.5	1231.5	1226.3
45°	1188.4	1188.8	1176.7	1167.7	1163.5
47.5°	1121.8	1120.9	1107.3	1099.8	1095.6
50°	1050.6	1048.7	1033.7	1026.6	1022.9
52.5°	976.0	972.3	959.1	948.8	945.5
55°	898.7	893.5	877.1	866.8	865.9
57.5°	818.0	811.9	798.3	788.5	784.8
60°	729.9	728.5	717.2	705.5	702.7
62.5°	647.4	643.2	633.3	619.3	617.9
65°	559.3	556.9	548.0	534.9	532.1
67.5°	468.3	470.7	463.2	451.4	447.7
70°	386.3	387.7	379.2	368.5	367.1
72.5°	303.8	306.1	299.1	292.1	290.6
75°	228.3	229.2	226.0	219.9	215.2
77.5°	162.2	165.5	161.7	157.5	153.8
80°	113.0	107.8	108.3	106.4	102.2
82.5°	68.0	65.6	65.2	63.3	61.4
85°	34.2	33.8	34.2	33.8	31.9
87.5°	11.3	12.2	12.7	12.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)