

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: P412867

Luminaire Tested: **24PD-50-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412867
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-50-PP3-L835
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

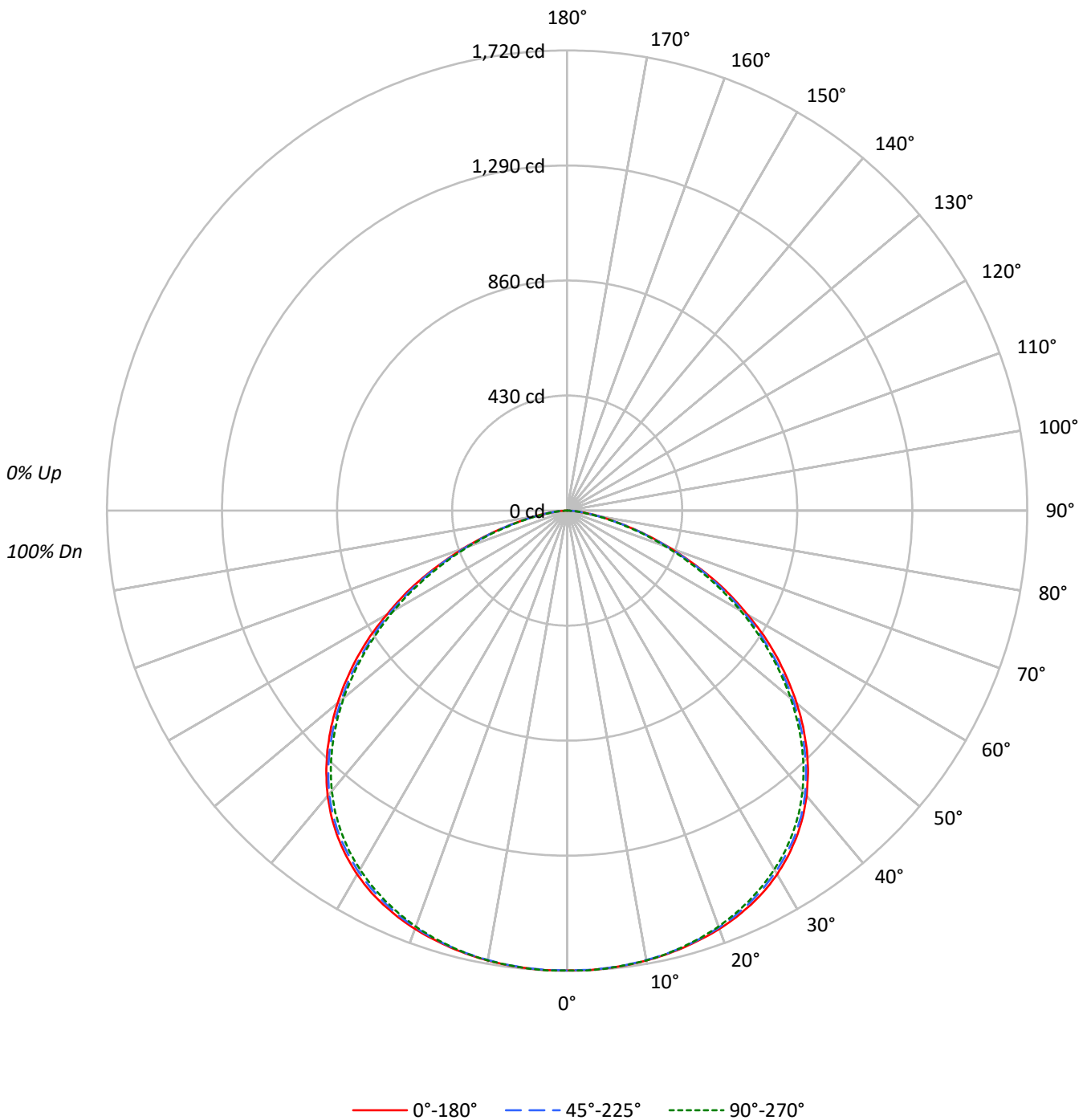
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.0 lumens
Efficiency: N/A
Efficacy: 133.4 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): 37.5
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: P412867
CATALOG NUMBER: 24PD-50-PP3-L835

Luminous Intensity Polar Plot





TEST NUMBER: P412867

CATALOG NUMBER: 24PD-50-PP3-L835

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°	2313	2313	2313
5°	2319	2318	2320
10°	2334	2331	2333
15°	2354	2351	2349
20°	2383	2375	2369
25°	2413	2400	2389
30°	2439	2422	2407
35°	2452	2438	2416
40°	2446	2431	2404
45°	2411	2387	2361
50°	2345	2307	2283
55°	2248	2194	2166
60°	2094	2058	2016
65°	1898	1860	1806
70°	1620	1591	1540
75°	1265	1252	1193
80°	934	895	845
85°	563	563	525



TEST NUMBER: P412867

CATALOG NUMBER: 24PD-50-PP3-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.3
10°-20°	477.2	9.5
20°-30°	746.0	14.9
30°-40°	927.1	18.5
40°-50°	965.9	19.3
50°-60°	838.2	16.8
60°-70°	576.3	11.5
70°-80°	260.1	5.2
80°-90°	47.7	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°	1386.8	27.7
0°-40°	2313.8	46.3
0°-60°	4117.9	82.3
0°-90°	5002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1717	1718	1716	1715	1718	164
15°	1690	1690	1688	1686	1687	478
25°	1625	1625	1617	1610	1609	750
35°	1493	1493	1484	1476	1471	933
45°	1267	1268	1255	1245	1241	975
55°	958	953	935	924	923	854
65°	596	594	584	570	567	589
75°	243	244	241	234	229	265
85°	36	36	36	36	34	49
90°	0	0	0	0	0	



TEST NUMBER: P412867

CATALOG NUMBER: 24PD-50-PP3-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1719.0	1719.0	1719.0	1719.0	1719.0
2.5°	1719.5	1719.5	1718.5	1717.0	1720.5
5°	1717.0	1717.5	1716.5	1715.0	1717.5
7.5°	1713.5	1714.0	1712.5	1711.0	1713.0
10°	1708.0	1707.5	1706.0	1705.0	1707.5
12.5°	1700.0	1699.5	1698.0	1697.0	1699.0
15°	1690.0	1690.0	1687.6	1686.1	1686.6
17.5°	1678.1	1678.1	1674.6	1671.1	1672.1
20°	1664.1	1663.6	1658.6	1655.1	1654.6
22.5°	1646.6	1646.6	1639.6	1635.1	1633.6
25°	1625.1	1624.6	1616.6	1610.1	1609.1
27.5°	1600.6	1599.6	1590.1	1583.6	1581.1
30°	1570.1	1569.1	1559.1	1552.1	1549.1
32.5°	1534.1	1535.6	1524.1	1516.1	1513.1
35°	1493.1	1493.1	1484.1	1475.6	1470.6
37.5°	1446.1	1446.1	1437.6	1429.1	1423.1
40°	1392.6	1393.1	1384.1	1373.6	1368.6
42.5°	1332.6	1333.6	1321.6	1313.1	1307.7
45°	1267.2	1267.7	1254.7	1245.2	1240.7
47.5°	1196.2	1195.2	1180.7	1172.7	1168.2
50°	1120.2	1118.2	1102.2	1094.7	1090.7
52.5°	1040.7	1036.7	1022.7	1011.7	1008.2
55°	958.2	952.7	935.3	924.3	923.3
57.5°	872.3	865.8	851.3	840.8	836.8
60°	778.3	776.8	764.8	752.3	749.3
62.5°	690.3	685.8	675.3	660.3	658.8
65°	596.3	593.8	584.3	570.3	567.3
67.5°	499.4	501.9	493.9	481.4	477.4
70°	411.9	413.4	404.4	392.9	391.4
72.5°	323.9	326.4	318.9	311.4	309.9
75°	243.4	244.4	240.9	234.4	229.4
77.5°	173.0	176.5	172.5	168.0	164.0
80°	120.5	115.0	115.5	113.5	109.0
82.5°	72.5	70.0	69.5	67.5	65.5
85°	36.5	36.0	36.5	36.0	34.0
87.5°	12.0	13.0	13.5	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)