

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: P412860

Luminaire Tested: **24PD-45-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412860
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-45-PP3-L850
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

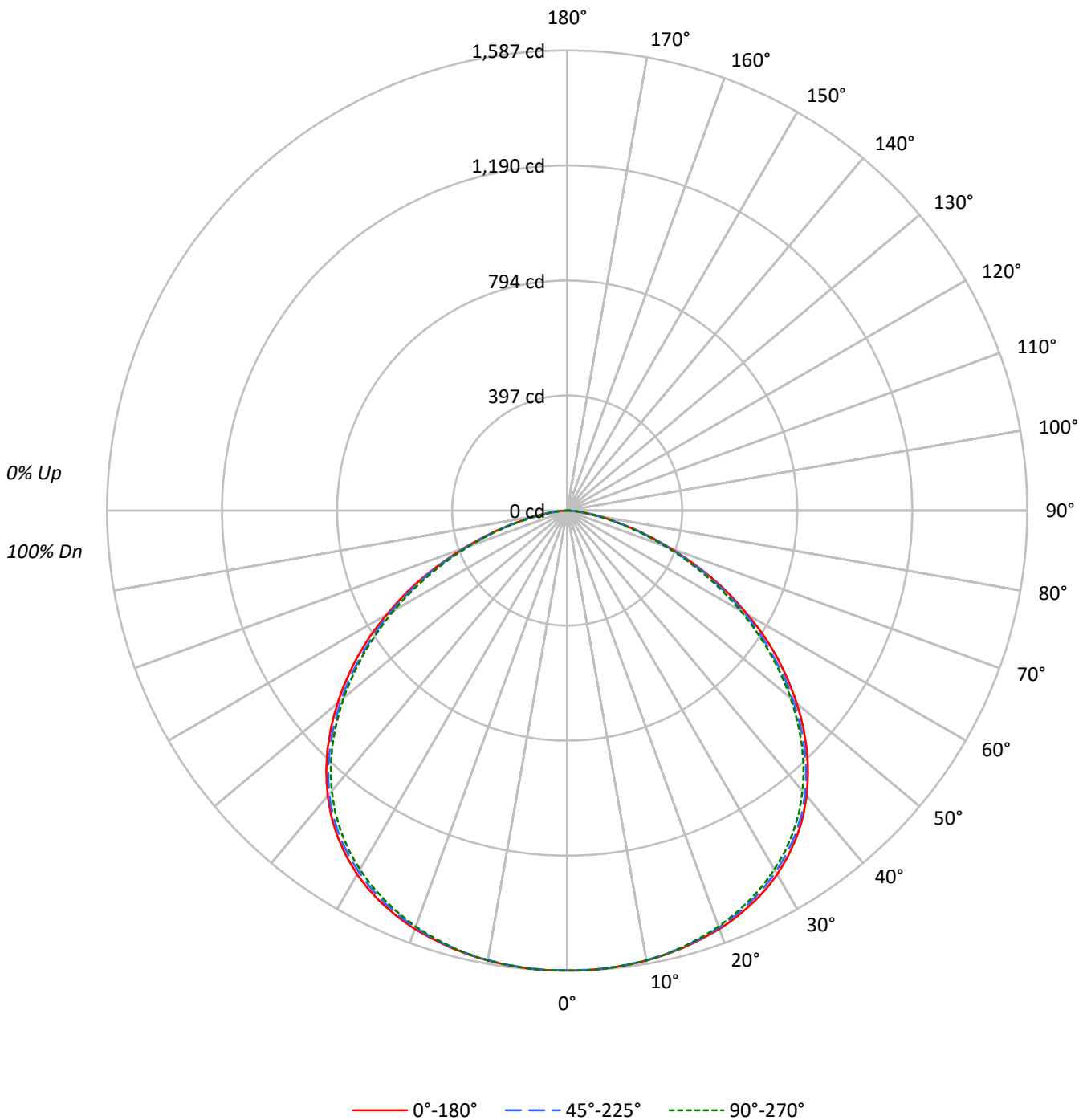
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615.0 lumens
Efficiency: N/A
Efficacy: 138.2 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): 33.4
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°	2134	2134	2134
5°	2140	2139	2140
10°	2153	2151	2152
15°	2172	2169	2168
20°	2198	2191	2186
25°	2226	2214	2204
30°	2251	2235	2220
35°	2263	2249	2229
40°	2257	2243	2218
45°	2225	2203	2178
50°	2163	2129	2106
55°	2074	2024	1998
60°	1932	1899	1860
65°	1752	1716	1667
70°	1495	1468	1421
75°	1168	1156	1101
80°	861	825	779
85°	520	520	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.3
10°-20°	440.3	9.5
20°-30°	688.2	14.9
30°-40°	855.3	18.5
40°-50°	891.2	19.3
50°-60°	773.3	16.8
60°-70°	531.7	11.5
70°-80°	240.0	5.2
80°-90°	44.0	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°	1279.5	27.7
0°-40°	2134.8	46.3
0°-60°	3799.3	82.3
0°-90°	4615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1584	1585	1584	1582	1585	151
15°	1559	1559	1557	1556	1556	441
25°	1499	1499	1492	1486	1485	692
35°	1378	1378	1369	1361	1357	861
45°	1169	1170	1158	1149	1145	900
55°	884	879	863	853	852	788
65°	550	548	539	526	524	543
75°	225	226	222	216	212	245
85°	34	33	34	33	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.0	1586.0	1586.0	1586.0	1586.0
2.5°	1586.5	1586.5	1585.6	1584.2	1587.4
5°	1584.2	1584.7	1583.7	1582.4	1584.7
7.5°	1581.0	1581.4	1580.0	1578.7	1580.5
10°	1575.9	1575.4	1574.1	1573.1	1575.4
12.5°	1568.5	1568.1	1566.7	1565.7	1567.6
15°	1559.3	1559.3	1557.0	1555.6	1556.1
17.5°	1548.2	1548.2	1545.0	1541.8	1542.7
20°	1535.3	1534.8	1530.2	1527.0	1526.5
22.5°	1519.2	1519.2	1512.7	1508.6	1507.2
25°	1499.3	1498.9	1491.5	1485.5	1484.6
27.5°	1476.7	1475.8	1467.1	1461.1	1458.8
30°	1448.6	1447.7	1438.5	1432.0	1429.2
32.5°	1415.4	1416.8	1406.2	1398.8	1396.0
35°	1377.6	1377.6	1369.3	1361.4	1356.8
37.5°	1334.2	1334.2	1326.4	1318.5	1313.0
40°	1284.9	1285.3	1277.0	1267.4	1262.7
42.5°	1229.5	1230.5	1219.4	1211.6	1206.5
45°	1169.1	1169.6	1157.6	1148.8	1144.7
47.5°	1103.6	1102.7	1089.3	1082.0	1077.8
50°	1033.5	1031.7	1016.9	1010.0	1006.3
52.5°	960.2	956.5	943.6	933.5	930.2
55°	884.1	879.0	862.9	852.7	851.8
57.5°	804.8	798.8	785.4	775.7	772.0
60°	718.1	716.7	705.6	694.1	691.3
62.5°	636.9	632.8	623.1	609.2	607.9
65°	550.2	547.9	539.1	526.2	523.5
67.5°	460.7	463.0	455.7	444.1	440.4
70°	380.0	381.4	373.1	362.5	361.1
72.5°	298.9	301.2	294.2	287.3	285.9
75°	224.6	225.5	222.3	216.3	211.7
77.5°	159.6	162.8	159.1	155.0	151.3
80°	111.1	106.1	106.5	104.7	100.5
82.5°	66.9	64.6	64.1	62.3	60.4
85°	33.7	33.2	33.7	33.2	31.4
87.5°	11.1	12.0	12.5	12.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)