

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: P412399

Luminaire Tested: **22PD-45-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PB1-L835
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

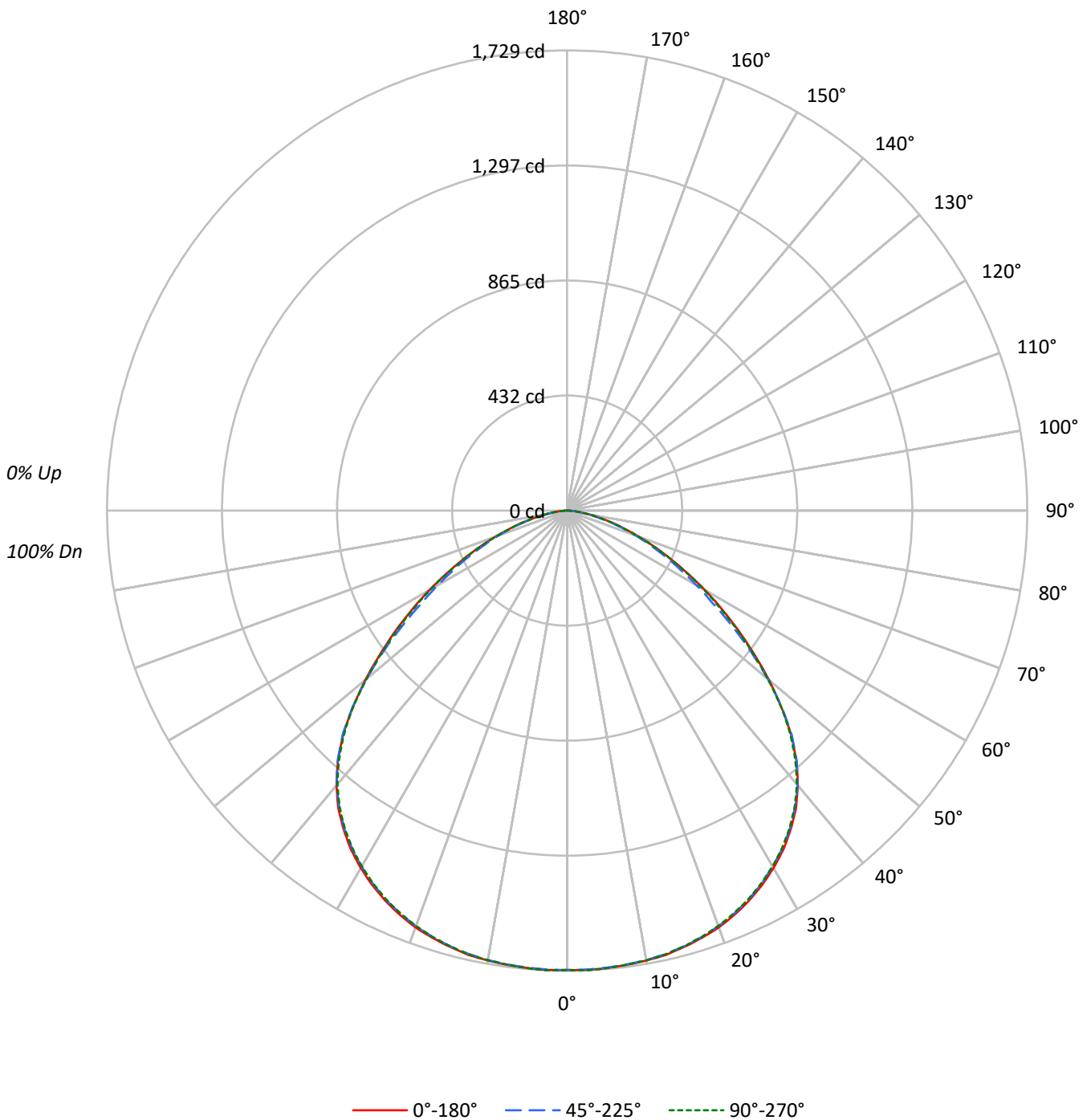
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4532.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.2
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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56					54				
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4645	4645	4645
5°	4660	4656	4662
10°	4691	4685	4688
15°	4729	4721	4721
20°	4772	4758	4755
25°	4802	4788	4783
30°	4818	4798	4795
35°	4808	4794	4785
40°	4736	4731	4716
45°	4528	4542	4508
50°	4145	4123	4119
55°	3684	3553	3658
60°	3212	3017	3192
65°	2723	2576	2709
70°	2251	2159	2230
75°	1821	1704	1748
80°	1316	1274	1266
85°	858	858	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.6
10°-20°	479.0	10.6
20°-30°	743.3	16.4
30°-40°	911.5	20.1
40°-50°	911.2	20.1
50°-60°	690.2	15.2
60°-70°	414.0	9.1
70°-80°	182.3	4.0
80°-90°	36.2	0.8
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°	1386.6	30.6
0°-40°	2298.2	50.7
0°-60°	3899.6	86.0
0°-90°	4532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1725	1723	1724	1723	1726	164
15°	1697	1696	1695	1694	1695	480
25°	1617	1614	1612	1610	1611	746
35°	1464	1463	1459	1458	1457	914
45°	1190	1191	1194	1190	1184	911
55°	785	768	757	768	780	704
65°	428	413	405	412	425	428
75°	175	171	164	166	168	187
85°	28	29	28	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.2	1726.2	1726.2	1726.2	1726.2
2.5°	1727.8	1725.2	1725.7	1725.7	1728.9
5°	1725.2	1723.0	1723.6	1723.0	1725.7
7.5°	1721.4	1719.3	1719.8	1719.3	1720.9
10°	1716.6	1714.5	1714.5	1713.4	1715.6
12.5°	1710.2	1707.6	1706.5	1706.0	1707.6
15°	1697.4	1695.8	1694.7	1693.7	1694.7
17.5°	1683.5	1680.9	1679.8	1677.7	1679.8
20°	1666.5	1662.7	1661.6	1660.0	1660.6
22.5°	1644.0	1640.8	1639.2	1636.6	1637.6
25°	1617.3	1614.1	1612.5	1609.9	1610.9
27.5°	1586.4	1584.2	1580.5	1578.4	1578.9
30°	1550.6	1548.5	1544.2	1543.1	1543.1
32.5°	1511.1	1508.5	1504.7	1503.6	1503.1
35°	1463.6	1463.1	1459.3	1458.3	1456.7
37.5°	1411.8	1410.8	1406.5	1405.4	1403.8
40°	1348.3	1347.3	1346.7	1344.6	1342.4
42.5°	1274.7	1276.3	1277.3	1273.1	1268.8
45°	1189.8	1191.4	1193.5	1190.3	1184.5
47.5°	1090.5	1096.9	1093.7	1095.8	1090.0
50°	990.2	990.2	984.8	987.0	983.8
52.5°	885.0	876.5	870.1	874.3	878.6
55°	785.2	768.1	757.4	767.6	779.8
57.5°	689.6	669.4	649.6	665.6	680.6
60°	596.8	573.3	560.5	572.2	593.0
62.5°	508.7	491.6	478.8	487.9	505.5
65°	427.6	412.6	404.6	411.5	425.4
67.5°	353.4	343.2	335.2	341.1	351.8
70°	286.1	283.4	274.4	277.0	283.4
72.5°	224.7	224.2	216.2	218.3	222.1
75°	175.1	171.3	163.9	166.5	168.1
77.5°	123.8	125.4	118.5	120.1	120.1
80°	84.9	87.5	82.2	81.1	81.7
82.5°	53.9	53.9	53.4	52.8	51.2
85°	27.8	28.8	27.8	26.7	26.7
87.5°	10.7	10.7	10.7	10.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)