

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: P412741

Luminaire Tested: **22PD-45-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

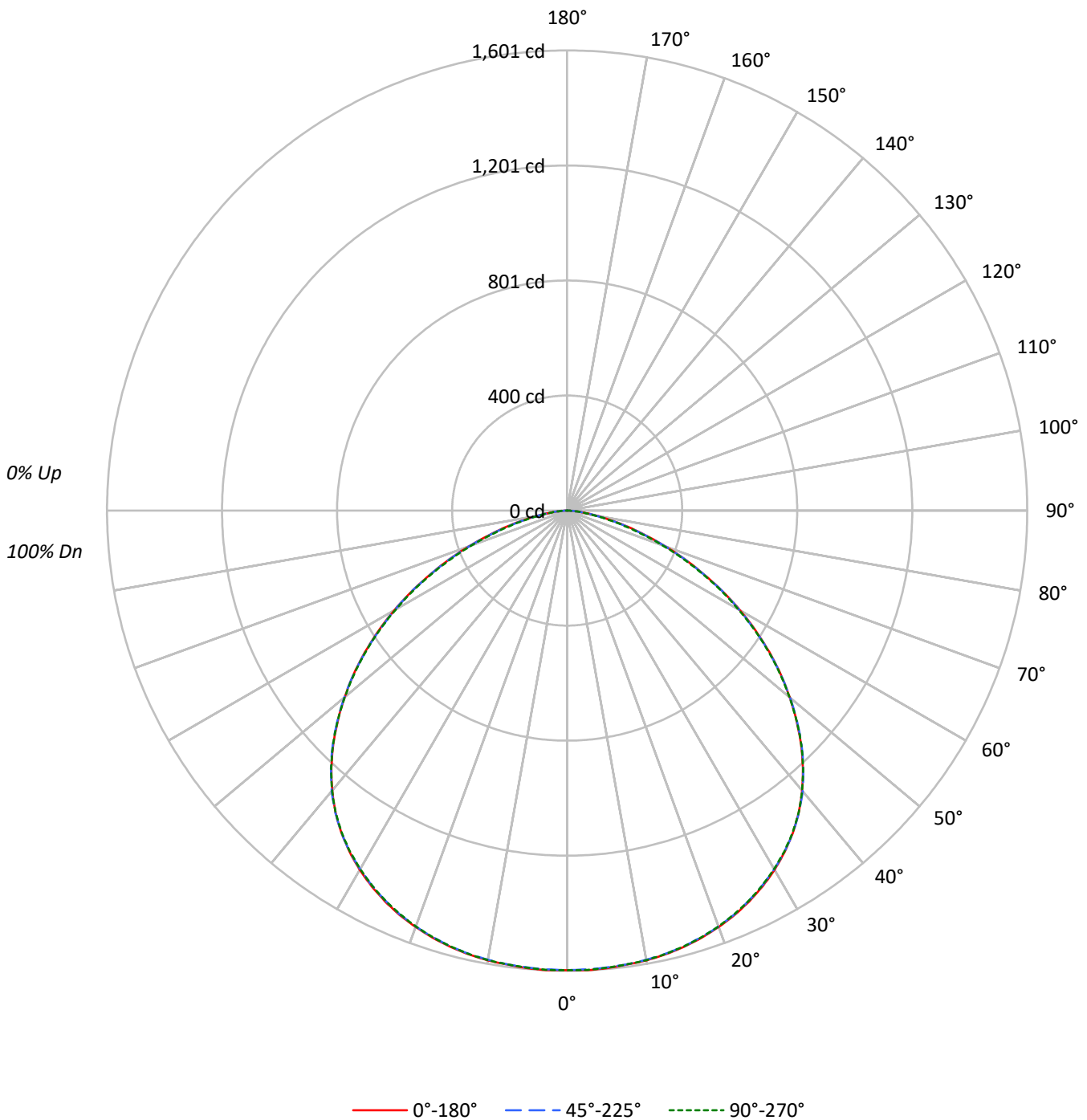
Test Method: LM-79-08  
Report Number: P412741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PP3-L835  
Description: 4500 LUMEN 2X2 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: 4587.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	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	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	4302	4302	4302
5°	4316	4310	4313
10°	4342	4336	4339
15°	4377	4372	4372
20°	4415	4410	4409
25°	4454	4446	4446
30°	4485	4477	4475
35°	4498	4498	4493
40°	4469	4478	4469
45°	4380	4392	4386
50°	4232	4239	4228
55°	4030	4020	4012
60°	3740	3732	3703
65°	3341	3338	3300
70°	2856	2840	2777
75°	2276	2209	2143
80°	1621	1588	1506
85°	1056	1056	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.0	3.3
10°-20°	443.5	9.7
20°-30°	690.6	15.1
30°-40°	854.7	18.6
40°-50°	886.3	19.3
50°-60°	763.9	16.7
60°-70°	519.3	11.3
70°-80°	232.4	5.1
80°-90°	44.3	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°	1286.1	28.0
0°-40°	2140.8	46.7
0°-60°	3791.0	82.6
0°-90°	4587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1598	1594	1596	1595	1597	152
15°	1571	1568	1569	1568	1569	444
25°	1500	1498	1497	1497	1497	692
35°	1369	1368	1369	1367	1368	855
45°	1151	1150	1154	1151	1152	886
55°	859	856	857	855	855	766
65°	525	529	524	523	518	521
75°	219	219	212	211	206	235
85°	34	35	34	33	33	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1600.9	1597.7	1597.7	1598.2	1599.8
5°	1597.7	1594.5	1595.6	1595.0	1596.6
7.5°	1593.4	1590.8	1592.4	1591.3	1592.4
10°	1589.2	1586.5	1587.0	1586.5	1588.1
12.5°	1581.7	1578.5	1579.6	1579.6	1580.1
15°	1571.0	1568.3	1569.4	1568.3	1569.4
17.5°	1558.2	1555.0	1555.5	1555.0	1556.1
20°	1541.7	1539.5	1540.1	1539.0	1539.5
22.5°	1523.0	1520.3	1520.8	1519.8	1519.8
25°	1500.0	1497.9	1497.3	1496.8	1497.3
27.5°	1473.3	1470.7	1470.7	1470.1	1470.1
30°	1443.4	1440.8	1440.8	1440.2	1440.2
32.5°	1408.2	1407.1	1407.7	1406.6	1406.1
35°	1369.2	1367.6	1369.2	1367.1	1367.6
37.5°	1323.9	1321.7	1324.9	1322.8	1323.3
40°	1272.1	1271.0	1274.7	1273.1	1272.1
42.5°	1214.4	1214.4	1216.0	1216.6	1215.5
45°	1150.9	1149.8	1154.1	1151.4	1152.5
47.5°	1082.6	1081.0	1084.2	1083.6	1083.1
50°	1011.0	1010.0	1012.6	1010.0	1010.0
52.5°	936.8	936.3	936.8	934.2	933.6
55°	858.9	855.7	856.8	855.2	855.2
57.5°	777.8	774.0	774.6	774.0	774.6
60°	695.0	694.0	693.4	690.8	688.1
62.5°	610.1	611.2	610.7	606.9	604.3
65°	524.7	529.0	524.2	522.6	518.3
67.5°	444.1	445.7	442.5	438.8	434.0
70°	363.0	366.2	360.9	357.1	352.9
72.5°	285.6	287.7	282.9	280.8	275.4
75°	218.9	219.4	212.5	211.4	206.1
77.5°	155.9	158.0	152.7	152.7	147.3
80°	104.6	108.4	102.5	100.9	97.2
82.5°	65.7	66.2	64.6	63.0	61.4
85°	34.2	35.2	34.2	33.1	33.1
87.5°	12.8	13.3	12.8	12.3	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)