

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: P413083

Luminaire Tested: **22PD-45-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-45-PC3-L835
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

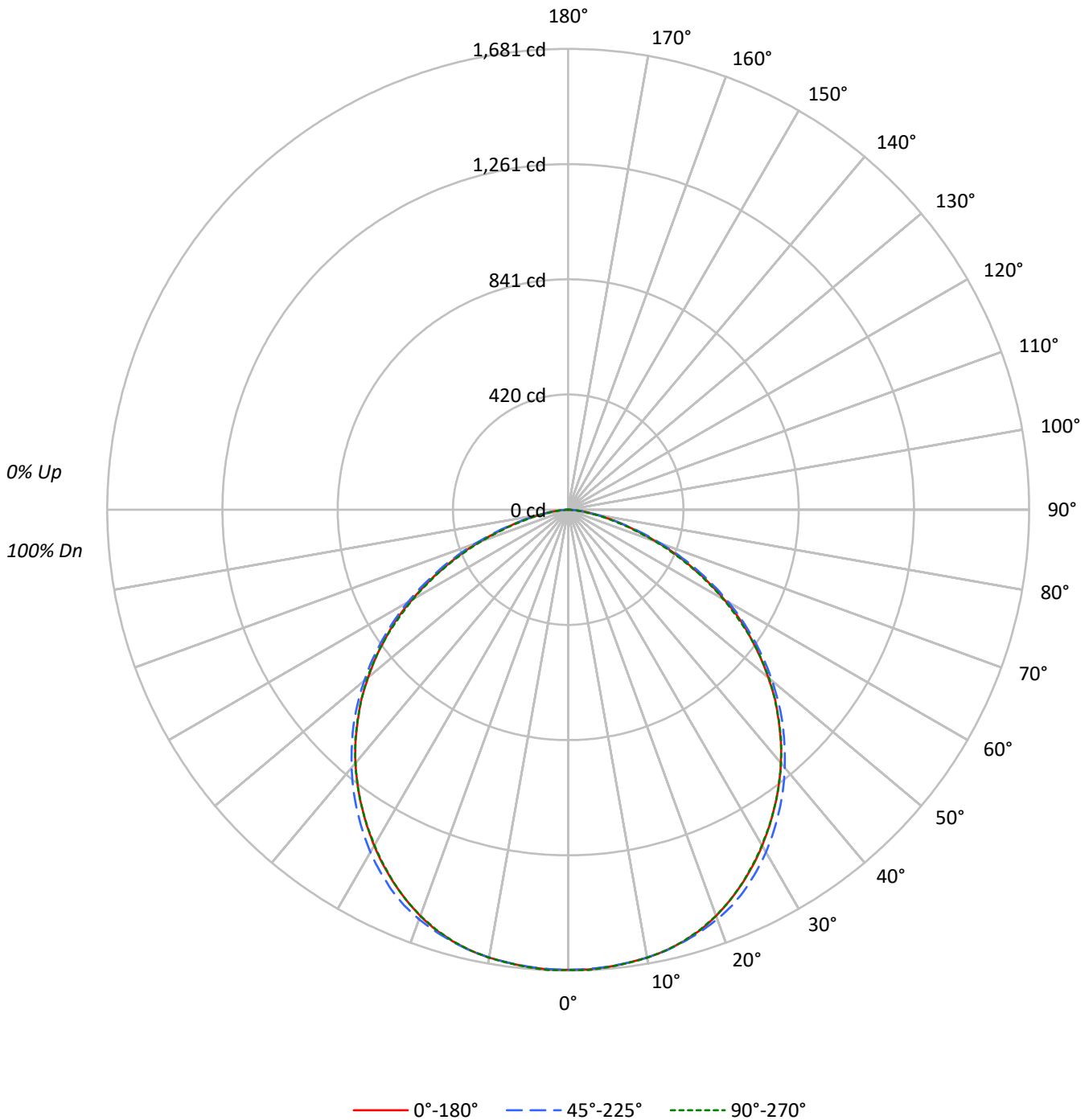
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4509.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4517	4517	4517
5°	4522	4519	4525
10°	4534	4532	4534
15°	4539	4545	4538
20°	4516	4553	4513
25°	4464	4537	4461
30°	4397	4484	4391
35°	4321	4407	4321
40°	4240	4315	4240
45°	4128	4209	4134
50°	3987	4065	4003
55°	3802	3877	3802
60°	3546	3634	3522
65°	3182	3294	3141
70°	2722	2818	2642
75°	2159	2220	2048
80°	1547	1605	1472
85°	1022	1056	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.5
10°-20°	460.0	10.2
20°-30°	697.9	15.5
30°-40°	833.4	18.5
40°-50°	847.6	18.8
50°-60°	733.1	16.3
60°-70°	504.5	11.2
70°-80°	229.0	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°	1317.1	29.2
0°-40°	2150.5	47.7
0°-60°	3731.3	82.8
0°-90°	4509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1674	1673	1673	1673	1675	159
15°	1629	1630	1631	1629	1629	460
25°	1503	1517	1528	1514	1502	692
35°	1315	1339	1342	1337	1315	823
45°	1085	1104	1106	1105	1086	837
55°	810	824	826	825	810	724
65°	500	514	517	513	493	496
75°	208	216	214	211	197	223
85°	33	35	34	33	31	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.4	1678.4	1678.4	1678.4	1678.4
2.5°	1678.4	1676.3	1676.8	1677.4	1680.6
5°	1674.2	1672.6	1673.1	1673.1	1675.2
7.5°	1667.2	1666.7	1666.7	1666.1	1667.7
10°	1659.2	1658.1	1658.7	1658.1	1659.2
12.5°	1646.9	1646.9	1647.5	1645.9	1646.9
15°	1629.3	1630.4	1631.4	1628.8	1628.8
17.5°	1606.9	1609.6	1612.2	1607.4	1604.8
20°	1577.0	1583.4	1589.8	1582.3	1575.9
22.5°	1542.3	1553.0	1562.6	1550.8	1542.3
25°	1503.3	1516.7	1527.9	1514.0	1502.3
27.5°	1461.1	1476.1	1486.8	1475.0	1459.0
30°	1415.2	1433.4	1443.0	1431.8	1413.1
32.5°	1366.1	1387.5	1393.3	1386.4	1365.1
35°	1315.4	1338.9	1341.6	1336.8	1315.4
37.5°	1262.6	1285.0	1287.1	1284.4	1262.6
40°	1207.0	1227.9	1228.4	1228.4	1207.0
42.5°	1147.8	1168.1	1168.1	1167.5	1149.4
45°	1084.8	1104.5	1106.1	1105.1	1086.4
47.5°	1022.3	1037.3	1039.9	1037.8	1021.3
50°	952.4	967.9	971.1	968.9	956.1
52.5°	883.0	897.4	900.6	899.0	884.6
55°	810.4	824.3	826.4	824.8	810.4
57.5°	740.4	749.5	751.7	748.5	730.3
60°	658.8	671.6	675.3	671.6	654.5
62.5°	579.8	593.6	596.8	591.5	573.4
65°	499.7	513.6	517.3	513.0	493.3
67.5°	423.9	434.0	437.2	432.4	414.3
70°	345.9	358.7	358.2	351.8	335.8
72.5°	269.1	286.7	283.5	279.7	262.1
75°	207.7	215.7	213.5	211.4	197.0
77.5°	148.4	158.0	152.7	153.2	140.9
80°	99.8	108.9	103.6	101.4	95.0
82.5°	63.5	67.3	66.2	65.1	59.3
85°	33.1	35.2	34.2	33.1	31.0
87.5°	12.8	13.9	12.8	12.8	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)