

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: P413200

Luminaire Tested: **24PD-45-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-45-PC3-L835
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

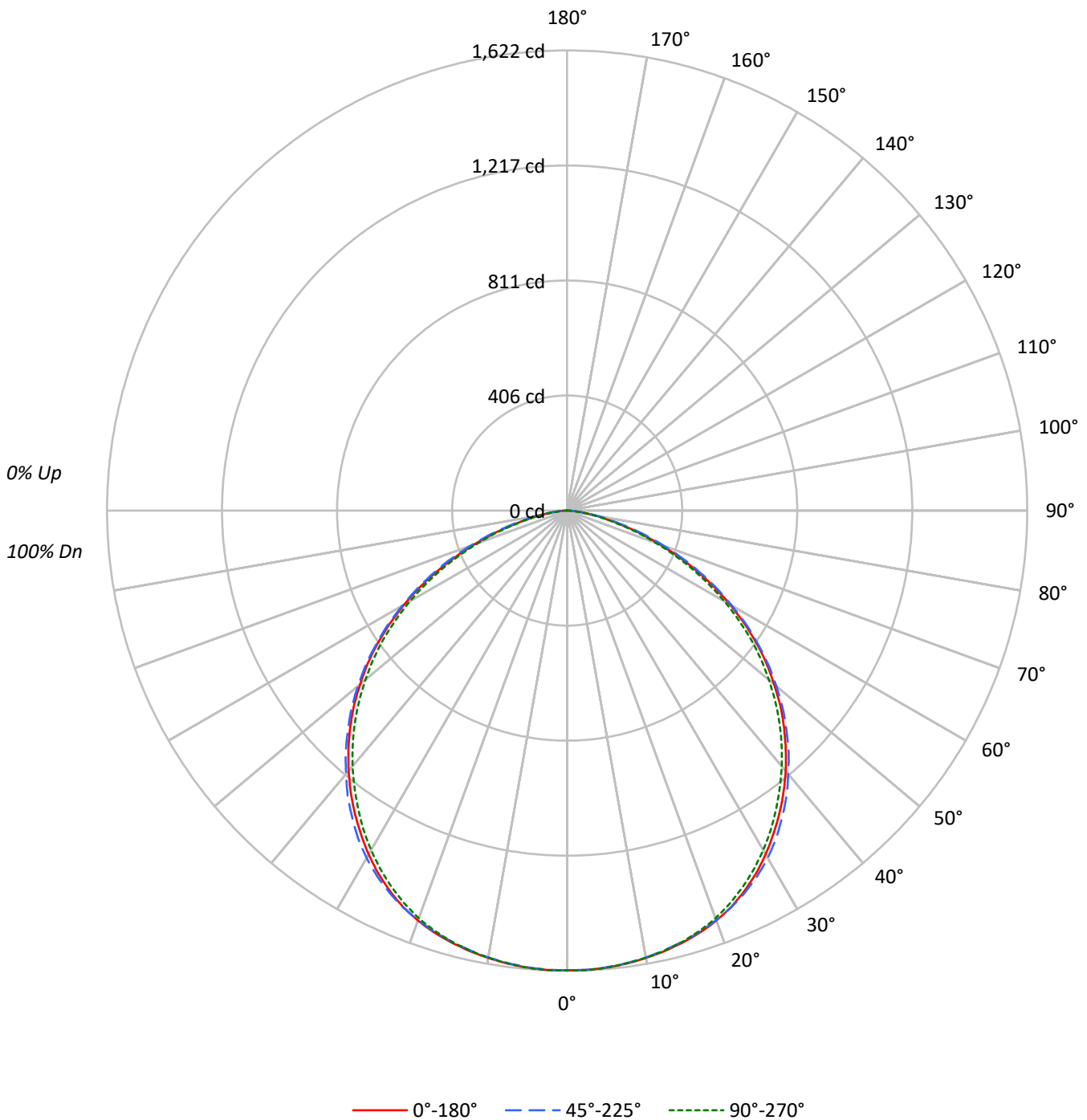
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2181	2181	2181
5°	2184	2182	2184
10°	2188	2185	2187
15°	2195	2191	2191
20°	2202	2199	2189
25°	2196	2204	2173
30°	2174	2197	2147
35°	2142	2169	2110
40°	2105	2130	2067
45°	2057	2079	2014
50°	1993	2016	1944
55°	1911	1928	1855
60°	1784	1805	1723
65°	1608	1648	1545
70°	1365	1425	1310
75°	1057	1134	1008
80°	786	821	713
85°	485	520	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	3.5
10°-20°	444.5	10.0
20°-30°	680.7	15.4
30°-40°	818.8	18.5
40°-50°	835.0	18.8
50°-60°	723.9	16.3
60°-70°	501.9	11.3
70°-80°	229.2	5.2
80°-90°	42.3	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°	1278.9	28.9
0°-40°	2097.7	47.4
0°-60°	3656.6	82.5
0°-90°	4430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1617	1617	1616	1615	1617	154
15°	1576	1575	1573	1571	1573	445
25°	1479	1483	1485	1472	1464	681
35°	1304	1318	1321	1304	1284	816
45°	1081	1094	1093	1078	1059	833
55°	815	820	822	802	791	726
65°	505	516	518	500	485	499
75°	203	215	218	211	194	222
85°	31	32	34	32	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1620.7	1620.7	1619.8	1618.9	1621.6
5°	1616.7	1616.7	1615.8	1614.9	1617.1
7.5°	1610.4	1609.9	1609.0	1608.1	1609.5
10°	1601.4	1601.0	1599.2	1598.7	1600.5
12.5°	1590.2	1589.7	1587.0	1587.0	1588.4
15°	1575.8	1575.4	1572.7	1571.3	1573.1
17.5°	1559.7	1559.2	1556.1	1552.5	1553.4
20°	1538.1	1538.1	1535.9	1530.5	1529.1
22.5°	1512.1	1513.4	1513.4	1503.1	1499.1
25°	1479.3	1483.3	1484.7	1471.7	1464.0
27.5°	1442.0	1448.3	1451.9	1435.3	1425.4
30°	1399.4	1409.7	1414.2	1396.2	1381.9
32.5°	1352.7	1365.7	1371.1	1353.6	1335.2
35°	1304.2	1318.1	1320.8	1303.8	1284.5
37.5°	1252.6	1266.9	1270.5	1255.3	1231.5
40°	1198.3	1212.6	1212.6	1200.1	1176.7
42.5°	1140.8	1156.1	1155.6	1140.3	1119.2
45°	1081.1	1094.5	1092.8	1077.9	1058.6
47.5°	1019.6	1028.1	1030.3	1012.8	994.4
50°	952.2	960.8	963.0	943.3	928.9
52.5°	885.8	891.2	894.3	871.4	861.1
55°	814.8	819.8	822.0	801.8	790.6
57.5°	739.9	746.2	748.9	728.7	716.1
60°	663.1	669.8	670.7	651.9	640.2
62.5°	585.0	594.0	595.8	576.9	563.0
65°	505.1	515.8	517.6	500.1	485.3
67.5°	425.2	439.5	440.0	425.6	408.1
70°	347.0	362.8	362.3	350.2	333.1
72.5°	272.5	286.9	290.0	278.8	262.2
75°	203.4	214.6	218.2	211.0	193.9
77.5°	144.6	154.9	158.0	151.3	138.7
80°	101.5	101.9	106.0	100.6	92.0
82.5°	62.9	62.0	63.3	61.1	56.1
85°	31.4	32.3	33.7	31.9	29.2
87.5°	10.8	11.2	12.1	12.1	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)