

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: P413223

Luminaire Tested: **24PD-55-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413223
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-55-PC3-L935
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

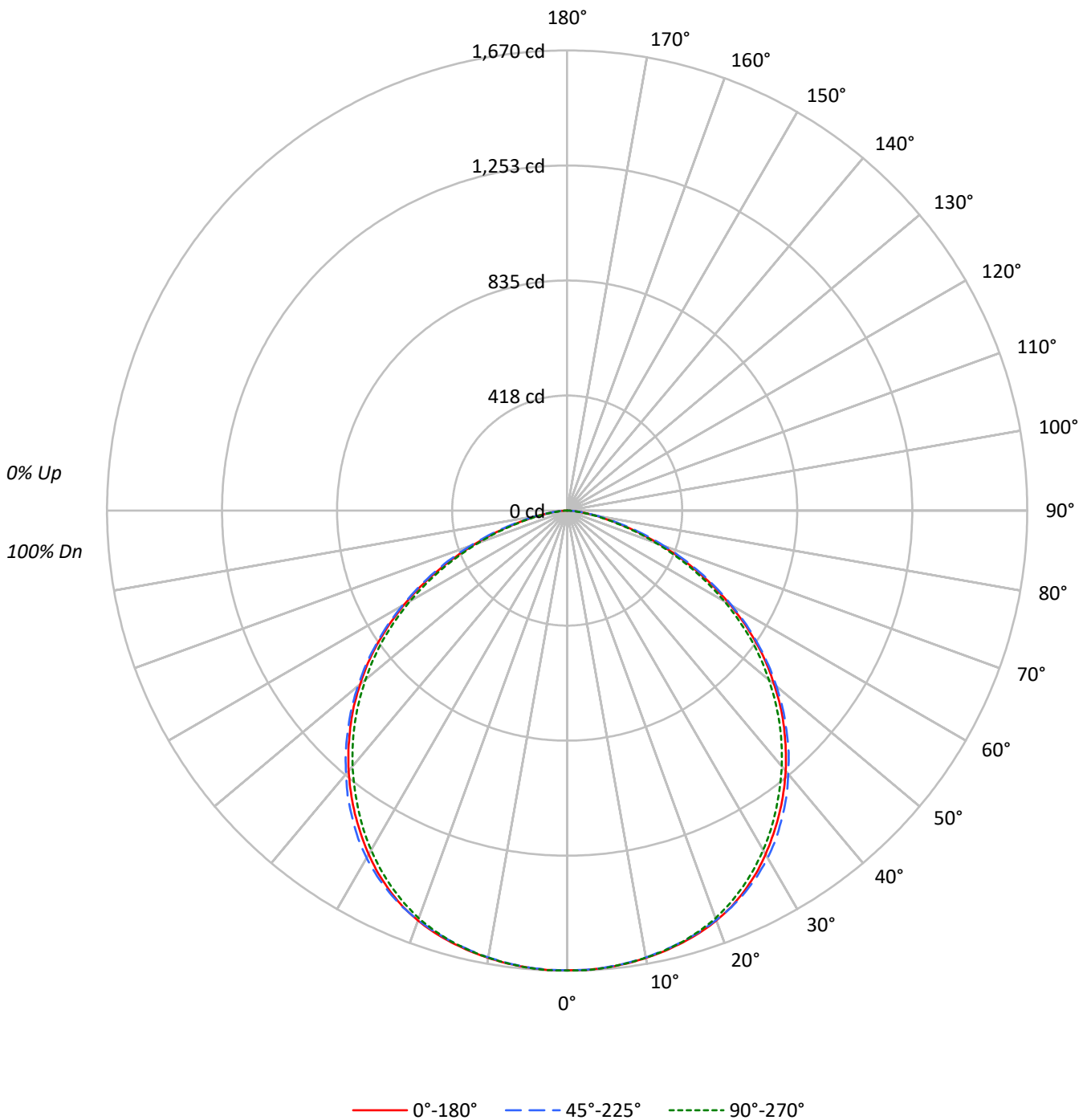
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4561.0 lumens
Efficiency: N/A
Efficacy: 109.4 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): 41.7
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°	2245	2245	2245
5°	2248	2247	2249
10°	2253	2250	2251
15°	2260	2255	2256
20°	2267	2264	2254
25°	2261	2269	2238
30°	2238	2262	2210
35°	2206	2234	2172
40°	2167	2193	2128
45°	2118	2141	2074
50°	2052	2075	2002
55°	1968	1985	1909
60°	1837	1858	1774
65°	1656	1697	1591
70°	1406	1467	1349
75°	1089	1168	1038
80°	810	845	735
85°	500	536	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.5
10°-20°	457.6	10.0
20°-30°	700.8	15.4
30°-40°	843.1	18.5
40°-50°	859.7	18.8
50°-60°	745.3	16.3
60°-70°	516.7	11.3
70°-80°	236.0	5.2
80°-90°	43.6	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°	1316.7	28.9
0°-40°	2159.7	47.4
0°-60°	3764.7	82.5
0°-90°	4561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1664	1664	1664	1663	1665	158
15°	1622	1622	1619	1618	1620	458
25°	1523	1527	1529	1515	1507	701
35°	1343	1357	1360	1342	1322	840
45°	1113	1127	1125	1110	1090	858
55°	839	844	846	826	814	748
65°	520	531	533	515	500	514
75°	209	221	225	217	200	229
85°	32	33	35	33	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.6	1668.6	1668.6	1668.6	1668.6
2.5°	1668.6	1668.6	1667.7	1666.8	1669.6
5°	1664.5	1664.5	1663.6	1662.6	1664.9
7.5°	1658.0	1657.6	1656.6	1655.7	1657.1
10°	1648.8	1648.3	1646.5	1646.0	1647.8
12.5°	1637.2	1636.8	1634.0	1634.0	1635.4
15°	1622.4	1622.0	1619.2	1617.8	1619.7
17.5°	1605.8	1605.3	1602.1	1598.4	1599.3
20°	1583.6	1583.6	1581.3	1575.7	1574.4
22.5°	1556.8	1558.2	1558.2	1547.5	1543.4
25°	1523.0	1527.2	1528.6	1515.2	1507.3
27.5°	1484.7	1491.2	1494.8	1477.7	1467.6
30°	1440.8	1451.4	1456.0	1437.5	1422.7
32.5°	1392.7	1406.1	1411.6	1393.6	1374.7
35°	1342.8	1357.1	1359.9	1342.3	1322.4
37.5°	1289.6	1304.4	1308.1	1292.4	1267.9
40°	1233.7	1248.5	1248.5	1235.5	1211.5
42.5°	1174.5	1190.2	1189.8	1174.1	1152.3
45°	1113.0	1126.9	1125.1	1109.8	1089.9
47.5°	1049.7	1058.5	1060.8	1042.8	1023.8
50°	980.4	989.2	991.5	971.1	956.4
52.5°	912.0	917.5	920.8	897.2	886.6
55°	838.9	844.0	846.3	825.5	814.0
57.5°	761.8	768.2	771.0	750.2	737.3
60°	682.7	689.6	690.6	671.2	659.1
62.5°	602.3	611.5	613.4	594.0	579.6
65°	520.0	531.1	533.0	514.9	499.7
67.5°	437.7	452.5	453.0	438.2	420.2
70°	357.3	373.5	373.0	360.5	343.0
72.5°	280.6	295.4	298.6	287.0	269.9
75°	209.4	220.9	224.6	217.2	199.7
77.5°	148.8	159.5	162.7	155.8	142.8
80°	104.5	104.9	109.1	103.5	94.8
82.5°	64.7	63.8	65.2	62.9	57.8
85°	32.4	33.3	34.7	32.8	30.0
87.5°	11.1	11.6	12.5	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)