

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: P413227

Luminaire Tested: **24PD-60-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413227
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-60-PC3-L835
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

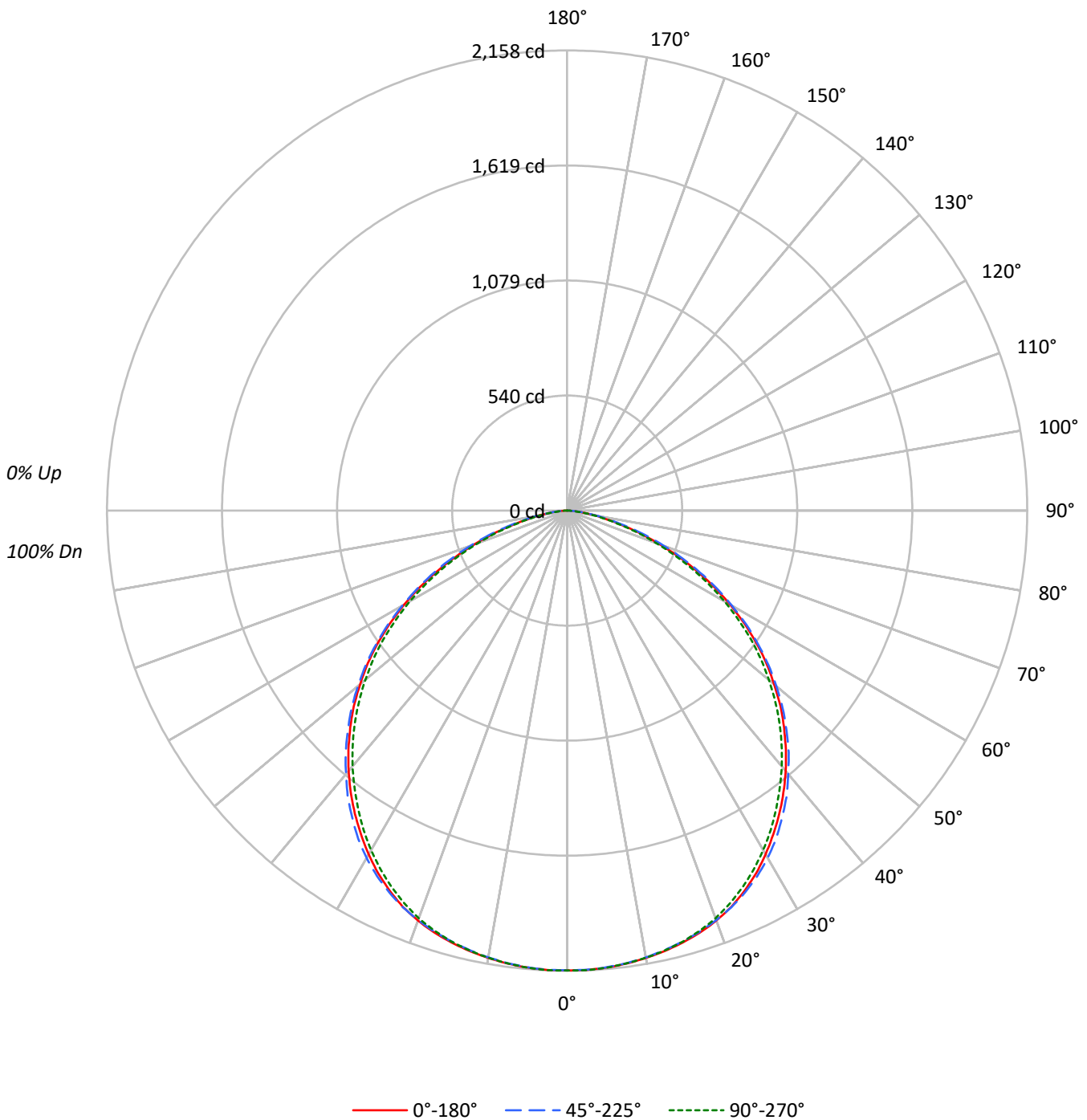
Lumens per Lamp: N/A
Luminaire Lumens: 5894.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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°	2901	2901	2901
5°	2905	2904	2906
10°	2911	2907	2909
15°	2920	2915	2915
20°	2930	2926	2913
25°	2922	2932	2892
30°	2893	2923	2857
35°	2850	2886	2807
40°	2800	2834	2750
45°	2737	2766	2680
50°	2652	2682	2587
55°	2543	2566	2468
60°	2374	2401	2292
65°	2139	2193	2056
70°	1816	1896	1744
75°	1407	1509	1341
80°	1046	1093	949
85°	645	692	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.5
10°-20°	591.3	10.0
20°-30°	905.6	15.4
30°-40°	1089.4	18.5
40°-50°	1110.9	18.8
50°-60°	963.1	16.3
60°-70°	667.7	11.3
70°-80°	305.0	5.2
80°-90°	56.3	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°	1701.5	28.9
0°-40°	2790.9	47.4
0°-60°	4865.0	82.5
0°-90°	5894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2151	2151	2150	2149	2152	205
15°	2097	2096	2092	2091	2093	592
25°	1968	1974	1975	1958	1948	906
35°	1735	1754	1757	1735	1709	1085
45°	1438	1456	1454	1434	1408	1109
55°	1084	1091	1094	1067	1052	966
65°	672	686	689	665	646	664
75°	271	286	290	281	258	296
85°	42	43	45	42	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.3	2156.3	2156.3	2156.3	2156.3
2.5°	2156.3	2156.3	2155.1	2153.9	2157.5
5°	2151.0	2151.0	2149.8	2148.6	2151.5
7.5°	2142.6	2142.0	2140.8	2139.6	2141.4
10°	2130.6	2130.0	2127.7	2127.1	2129.4
12.5°	2115.7	2115.1	2111.5	2111.5	2113.3
15°	2096.6	2096.0	2092.4	2090.6	2093.0
17.5°	2075.1	2074.5	2070.3	2065.5	2066.7
20°	2046.4	2046.4	2043.4	2036.3	2034.5
22.5°	2011.8	2013.6	2013.6	1999.8	1994.5
25°	1968.2	1973.5	1975.3	1958.0	1947.9
27.5°	1918.6	1927.0	1931.7	1909.6	1896.5
30°	1861.8	1875.6	1881.6	1857.7	1838.6
32.5°	1799.7	1817.0	1824.2	1800.9	1776.4
35°	1735.2	1753.7	1757.3	1734.6	1708.9
37.5°	1666.5	1685.6	1690.4	1670.1	1638.4
40°	1594.2	1613.4	1613.4	1596.6	1565.6
42.5°	1517.8	1538.1	1537.5	1517.2	1489.1
45°	1438.3	1456.3	1453.9	1434.2	1408.5
47.5°	1356.5	1367.9	1370.9	1347.6	1323.1
50°	1266.9	1278.3	1281.3	1255.0	1235.9
52.5°	1178.5	1185.7	1189.9	1159.4	1145.7
55°	1084.1	1090.7	1093.7	1066.8	1051.9
57.5°	984.4	992.7	996.3	969.5	952.7
60°	882.2	891.2	892.4	867.3	851.8
62.5°	778.3	790.3	792.6	767.6	749.0
65°	672.0	686.3	688.7	665.4	645.7
67.5°	565.7	584.8	585.4	566.3	543.0
70°	461.7	482.6	482.0	465.9	443.2
72.5°	362.6	381.7	385.9	370.9	348.8
75°	270.6	285.5	290.3	280.7	258.0
77.5°	192.3	206.1	210.3	201.3	184.6
80°	135.0	135.6	141.0	133.8	122.5
82.5°	83.6	82.4	84.2	81.2	74.7
85°	41.8	43.0	44.8	42.4	38.8
87.5°	14.3	14.9	16.1	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)