

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: P413218

Luminaire Tested: **24PD-55-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413218
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-L835
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

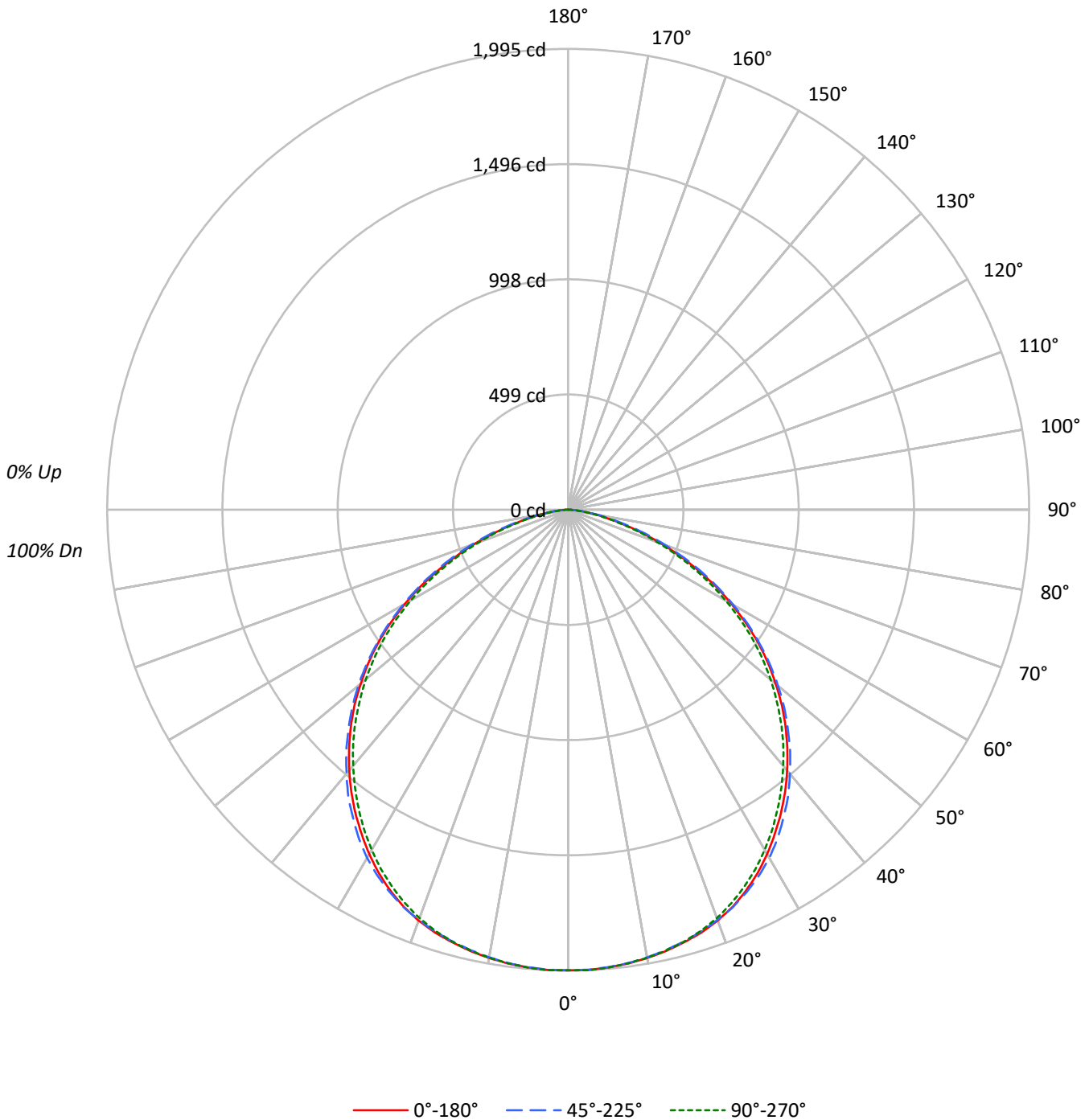
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5451.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

TEST NUMBER: P413218
CATALOG NUMBER: 24PD-55-PC3-L835

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°	2683	2683	2683
5°	2687	2685	2687
10°	2692	2688	2691
15°	2701	2696	2696
20°	2710	2706	2694
25°	2702	2712	2674
30°	2675	2703	2642
35°	2636	2669	2596
40°	2590	2621	2543
45°	2531	2559	2479
50°	2453	2480	2393
55°	2352	2373	2282
60°	2196	2221	2120
65°	1979	2028	1901
70°	1680	1754	1613
75°	1301	1396	1240
80°	967	1010	877
85°	597	639	554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.5
10°-20°	546.9	10.0
20°-30°	837.5	15.4
30°-40°	1007.6	18.5
40°-50°	1027.4	18.8
50°-60°	890.7	16.3
60°-70°	617.5	11.3
70°-80°	282.0	5.2
80°-90°	52.1	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°	1573.6	28.9
0°-40°	2581.2	47.4
0°-60°	4499.3	82.5
0°-90°	5451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1989	1989	1988	1987	1990	189
15°	1939	1938	1935	1934	1936	548
25°	1820	1825	1827	1811	1802	838
35°	1605	1622	1625	1604	1580	1003
45°	1330	1347	1345	1326	1303	1025
55°	1003	1009	1012	987	973	893
65°	622	635	637	615	597	614
75°	250	264	268	260	239	274
85°	39	40	41	39	36	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.3	1994.3	1994.3	1994.3	1994.3
2.5°	1994.3	1994.3	1993.1	1992.0	1995.4
5°	1989.3	1989.3	1988.2	1987.1	1989.8
7.5°	1981.5	1981.0	1979.9	1978.8	1980.4
10°	1970.5	1969.9	1967.7	1967.2	1969.4
12.5°	1956.7	1956.1	1952.8	1952.8	1954.5
15°	1939.0	1938.5	1935.1	1933.5	1935.7
17.5°	1919.1	1918.6	1914.7	1910.3	1911.4
20°	1892.6	1892.6	1889.8	1883.2	1881.6
22.5°	1860.6	1862.2	1862.2	1849.5	1844.5
25°	1820.2	1825.2	1826.9	1810.8	1801.5
27.5°	1774.4	1782.1	1786.5	1766.1	1753.9
30°	1721.9	1734.6	1740.1	1718.0	1700.4
32.5°	1664.5	1680.5	1687.1	1665.6	1642.9
35°	1604.8	1621.9	1625.2	1604.2	1580.5
37.5°	1541.3	1558.9	1563.4	1544.6	1515.3
40°	1474.4	1492.1	1492.1	1476.6	1447.9
42.5°	1403.7	1422.5	1421.9	1403.2	1377.2
45°	1330.2	1346.8	1344.6	1326.4	1302.6
47.5°	1254.6	1265.1	1267.8	1246.3	1223.6
50°	1171.7	1182.2	1185.0	1160.6	1143.0
52.5°	1089.9	1096.6	1100.4	1072.3	1059.6
55°	1002.7	1008.7	1011.5	986.6	972.8
57.5°	910.4	918.1	921.4	896.6	881.1
60°	815.9	824.2	825.3	802.1	787.8
62.5°	719.8	730.9	733.1	709.9	692.7
65°	621.5	634.7	636.9	615.4	597.2
67.5°	523.1	540.8	541.4	523.7	502.2
70°	427.0	446.4	445.8	430.9	409.9
72.5°	335.3	353.0	356.9	343.1	322.6
75°	250.2	264.1	268.5	259.6	238.6
77.5°	177.9	190.6	194.5	186.2	170.7
80°	124.8	125.4	130.4	123.7	113.2
82.5°	77.3	76.2	77.9	75.1	69.1
85°	38.7	39.8	41.4	39.2	35.9
87.5°	13.3	13.8	14.9	14.9	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)