

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: P412536

Luminaire Tested: **24PD-55-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PB1-L850
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

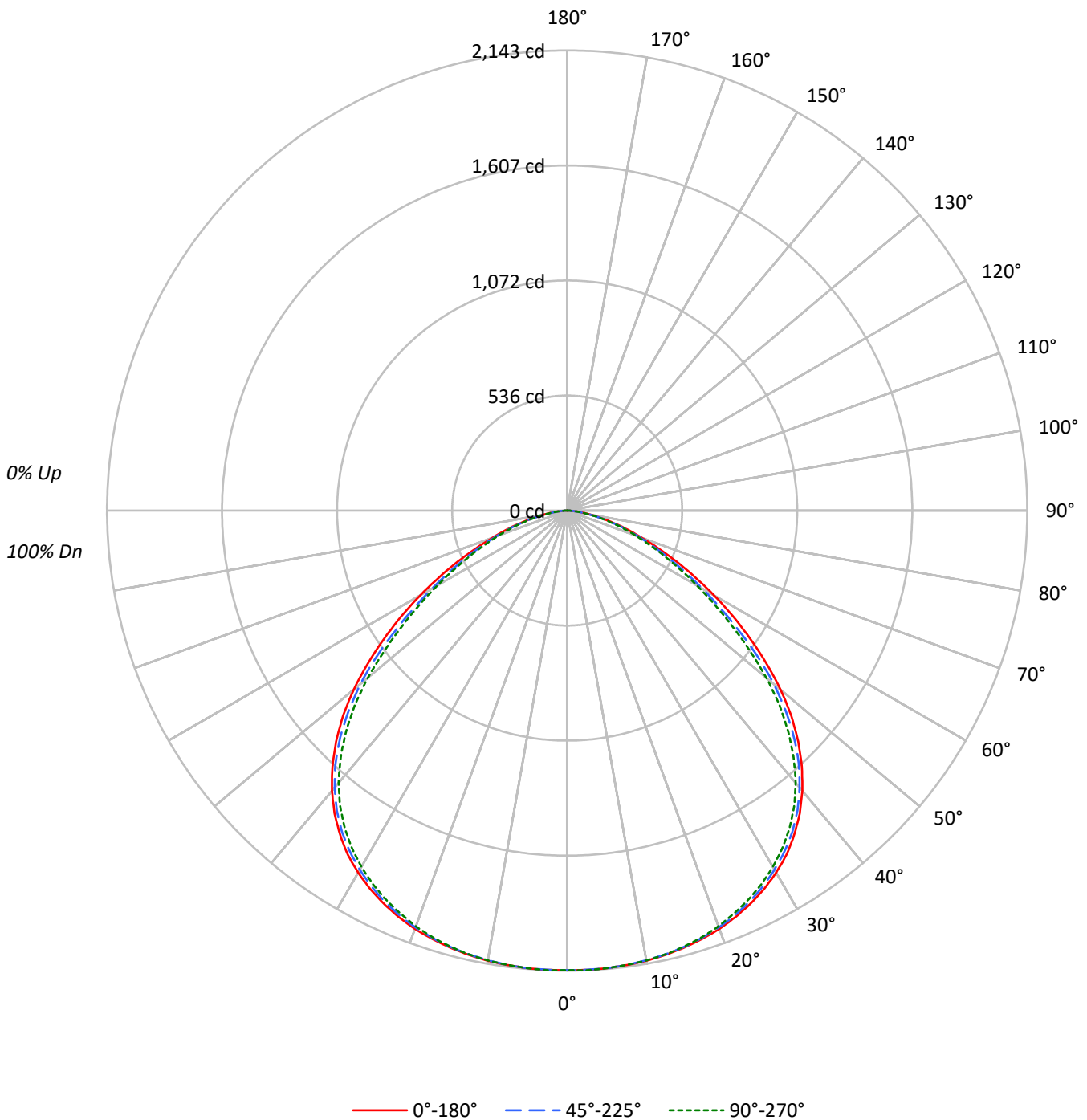
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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: P412536
CATALOG NUMBER: 24PD-55-PB1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P412536

CATALOG NUMBER: 24PD-55-PB1-L850

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2880	2880	2880
5°	2889	2889	2889
10°	2909	2905	2906
15°	2935	2931	2928
20°	2968	2958	2950
25°	2999	2984	2967
30°	3025	3000	2977
35°	3028	3002	2965
40°	2993	2958	2908
45°	2896	2843	2770
50°	2716	2631	2535
55°	2440	2295	2201
60°	2125	1956	1881
65°	1788	1654	1582
70°	1457	1384	1328
75°	1168	1127	1079
80°	896	826	804
85°	560	543	543



TEST NUMBER: P412536

CATALOG NUMBER: 24PD-55-PB1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	3.6
10°-20°	594.8	10.4
20°-30°	926.6	16.3
30°-40°	1139.9	20.0
40°-50°	1144.9	20.1
50°-60°	882.4	15.5
60°-70°	523.9	9.2
70°-80°	233.2	4.1
80°-90°	45.5	0.8
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°	1725.1	30.3
0°-40°	2865.0	50.3
0°-60°	4892.3	85.9
0°-90°	5695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2139	2140	2139	2137	2139	204
15°	2107	2107	2104	2100	2102	596
25°	2020	2019	2010	2001	1998	932
35°	1844	1841	1828	1812	1805	1151
45°	1522	1518	1494	1469	1456	1168
55°	1040	1020	978	949	938	930
65°	562	537	520	500	497	561
75°	225	220	217	209	208	243
85°	36	35	35	34	35	48
90°	0	0	0	0	0	



TEST NUMBER: P412536

CATALOG NUMBER: 24PD-55-PB1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2140.3	2140.3	2140.3	2140.3	2140.3
2.5°	2141.4	2140.8	2140.8	2138.6	2143.1
5°	2139.1	2139.7	2139.1	2136.9	2139.1
7.5°	2134.6	2135.1	2134.0	2131.7	2134.0
10°	2128.9	2128.9	2126.6	2125.5	2127.2
12.5°	2119.3	2119.3	2117.0	2115.3	2117.0
15°	2106.8	2106.8	2103.9	2100.5	2102.2
17.5°	2091.5	2091.5	2086.9	2082.4	2083.5
20°	2072.8	2072.2	2065.9	2059.7	2060.3
22.5°	2048.9	2048.4	2040.4	2033.0	2030.8
25°	2020.0	2019.4	2009.8	2000.7	1998.4
27.5°	1986.5	1984.3	1973.5	1963.3	1961.0
30°	1946.8	1945.1	1930.9	1920.7	1916.2
32.5°	1900.9	1896.3	1883.3	1870.8	1864.6
35°	1843.6	1840.7	1827.7	1812.4	1805.0
37.5°	1778.9	1776.1	1761.9	1744.9	1736.4
40°	1704.0	1701.8	1684.2	1666.6	1655.8
42.5°	1617.8	1616.1	1597.4	1573.0	1561.7
45°	1521.9	1518.0	1494.2	1469.2	1455.6
47.5°	1415.3	1408.5	1379.6	1355.7	1341.0
50°	1297.3	1288.2	1257.0	1226.4	1211.1
52.5°	1169.7	1153.8	1121.5	1086.3	1071.5
55°	1040.3	1020.5	978.5	949.0	938.2
57.5°	913.8	884.9	845.2	824.2	813.4
60°	789.6	757.9	726.7	706.2	698.9
62.5°	671.1	644.4	617.7	597.3	592.8
65°	561.6	537.2	519.6	499.8	496.9
67.5°	459.5	448.1	432.2	415.2	413.0
70°	370.4	365.9	351.7	341.5	337.5
72.5°	295.5	291.0	280.8	273.4	272.3
75°	224.6	220.1	216.7	209.3	207.6
77.5°	160.0	160.5	157.7	153.7	154.9
80°	115.7	108.9	106.6	104.4	103.8
82.5°	70.9	66.9	65.2	64.7	65.8
85°	36.3	34.6	35.2	33.5	35.2
87.5°	12.5	12.5	13.0	12.5	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)