

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: P412535

Luminaire Tested: **24PD-55-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412535
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-L840
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

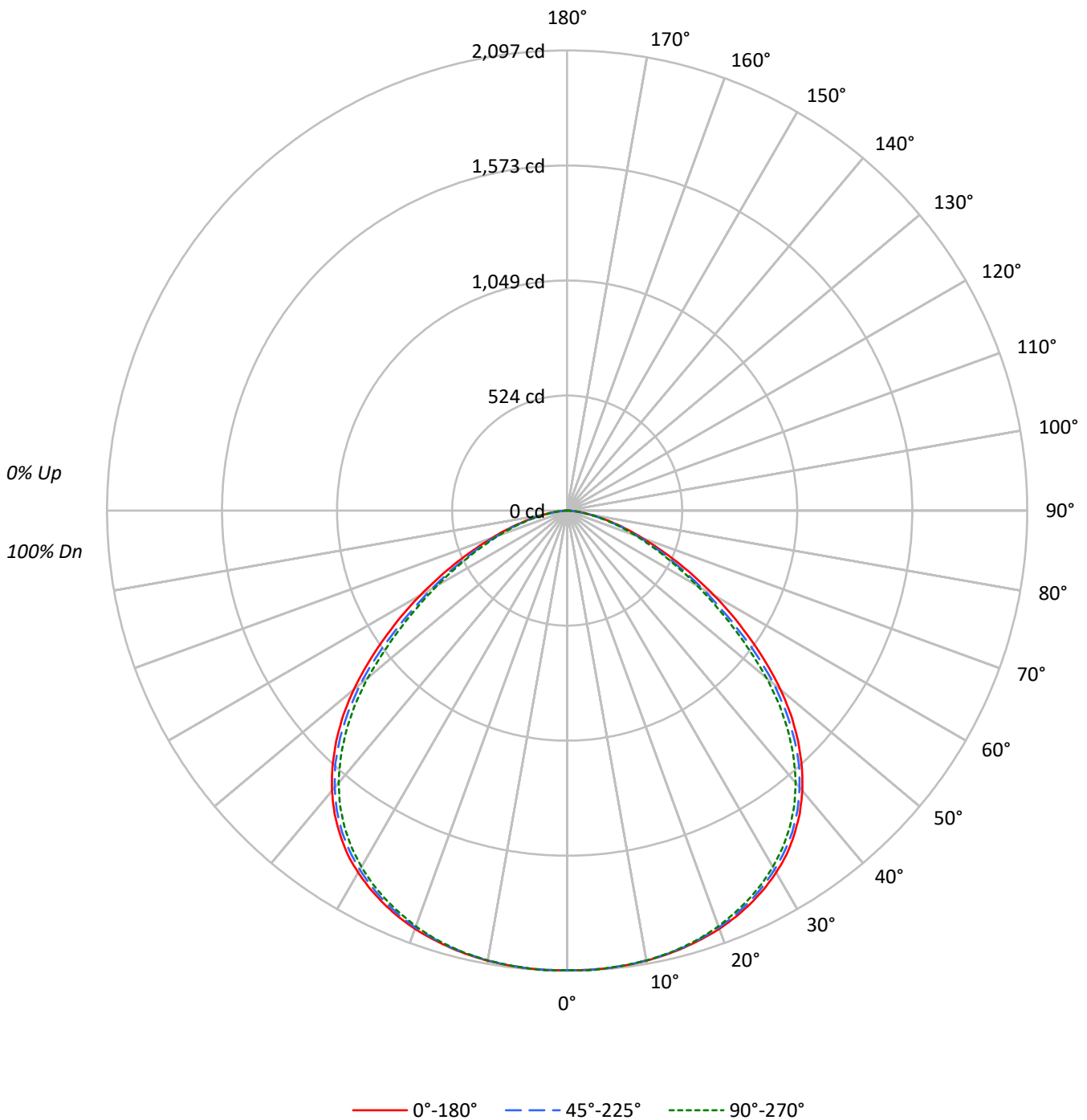
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5573.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

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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	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°	2818	2818	2818
5°	2827	2827	2827
10°	2846	2843	2844
15°	2872	2868	2866
20°	2904	2895	2887
25°	2935	2920	2903
30°	2960	2936	2913
35°	2963	2938	2901
40°	2929	2895	2846
45°	2834	2782	2710
50°	2657	2575	2481
55°	2388	2246	2154
60°	2079	1914	1840
65°	1750	1619	1548
70°	1426	1354	1299
75°	1143	1102	1056
80°	877	809	787
85°	548	531	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	3.6
10°-20°	582.0	10.4
20°-30°	906.7	16.3
30°-40°	1115.4	20.0
40°-50°	1120.4	20.1
50°-60°	863.5	15.5
60°-70°	512.6	9.2
70°-80°	228.2	4.1
80°-90°	44.6	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°	1688.2	30.3
0°-40°	2803.6	50.3
0°-60°	4787.5	85.9
0°-90°	5573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2093	2094	2093	2091	2093	199
15°	2062	2062	2059	2056	2057	583
25°	1977	1976	1967	1958	1956	912
35°	1804	1801	1788	1774	1766	1126
45°	1489	1486	1462	1438	1424	1143
55°	1018	999	958	929	918	910
65°	550	526	508	489	486	549
75°	220	215	212	205	203	238
85°	36	34	34	33	34	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.4	2094.4	2094.4	2094.4	2094.4
2.5°	2095.5	2095.0	2095.0	2092.7	2097.2
5°	2093.3	2093.8	2093.3	2091.1	2093.3
7.5°	2088.9	2089.4	2088.3	2086.1	2088.3
10°	2083.3	2083.3	2081.1	2080.0	2081.6
12.5°	2073.9	2073.9	2071.6	2070.0	2071.6
15°	2061.7	2061.7	2058.9	2055.5	2057.2
17.5°	2046.7	2046.7	2042.2	2037.8	2038.9
20°	2028.3	2027.8	2021.7	2015.6	2016.1
22.5°	2005.0	2004.5	1996.7	1989.5	1987.3
25°	1976.7	1976.2	1966.7	1957.8	1955.6
27.5°	1944.0	1941.8	1931.2	1921.2	1919.0
30°	1905.1	1903.4	1889.6	1879.6	1875.1
32.5°	1860.2	1855.7	1842.9	1830.7	1824.6
35°	1804.1	1801.3	1788.5	1773.6	1766.3
37.5°	1740.8	1738.0	1724.2	1707.5	1699.2
40°	1667.5	1665.3	1648.1	1630.9	1620.3
42.5°	1583.2	1581.5	1563.2	1539.3	1528.2
45°	1489.3	1485.5	1462.1	1437.7	1424.4
47.5°	1385.0	1378.3	1350.0	1326.7	1312.3
50°	1269.5	1260.6	1230.1	1200.1	1185.1
52.5°	1144.6	1129.1	1097.4	1063.0	1048.6
55°	1018.1	998.6	957.6	928.7	918.1
57.5°	894.3	866.0	827.1	806.6	796.0
60°	772.7	741.6	711.1	691.1	683.9
62.5°	656.7	630.6	604.5	584.5	580.1
65°	549.6	525.7	508.5	489.0	486.3
67.5°	449.6	438.5	423.0	406.3	404.1
70°	362.5	358.0	344.2	334.2	330.3
72.5°	289.2	284.8	274.8	267.6	266.4
75°	219.8	215.4	212.0	204.8	203.2
77.5°	156.5	157.1	154.3	150.4	151.5
80°	113.2	106.6	104.4	102.1	101.6
82.5°	69.4	65.5	63.8	63.3	64.4
85°	35.5	33.9	34.4	32.8	34.4
87.5°	12.2	12.2	12.8	12.2	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)