

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: P412878

Luminaire Tested: **24PD-55-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PP3-L850
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

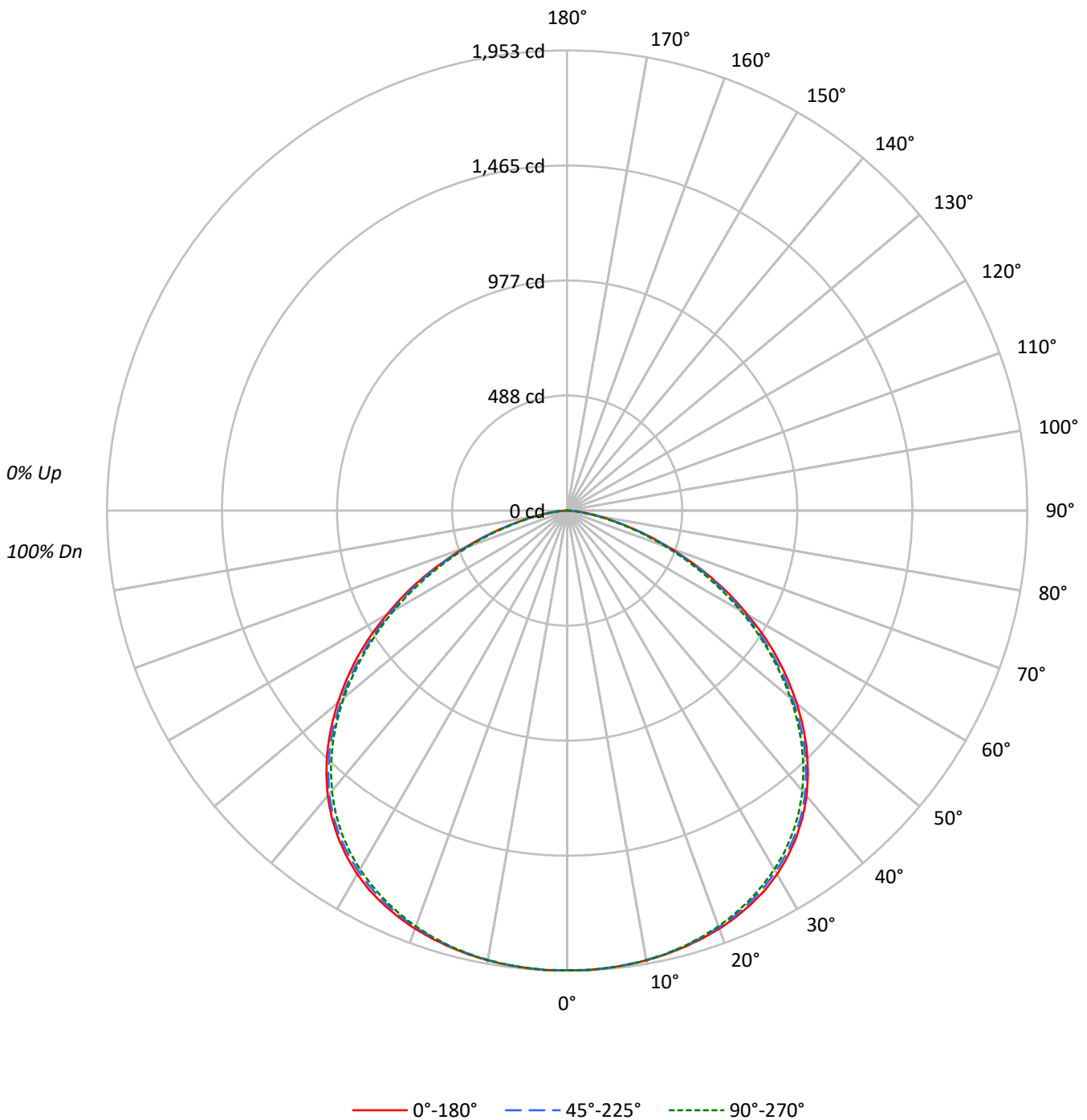
Lumens per Lamp: N/A
Luminaire Lumens: 5677.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2625	2625	2625
5°	2632	2631	2633
10°	2648	2645	2648
15°	2672	2668	2666
20°	2704	2695	2689
25°	2738	2724	2711
30°	2769	2749	2731
35°	2783	2767	2742
40°	2776	2759	2728
45°	2737	2710	2679
50°	2661	2618	2591
55°	2551	2490	2458
60°	2377	2336	2288
65°	2155	2111	2050
70°	1839	1806	1747
75°	1436	1421	1354
80°	1059	1016	958
85°	639	639	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.3
10°-20°	541.6	9.5
20°-30°	846.6	14.9
30°-40°	1052.2	18.5
40°-50°	1096.3	19.3
50°-60°	951.3	16.8
60°-70°	654.1	11.5
70°-80°	295.2	5.2
80°-90°	54.1	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°	1573.9	27.7
0°-40°	2626.1	46.3
0°-60°	4673.6	82.3
0°-90°	5677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1949	1949	1948	1946	1949	186
15°	1918	1918	1915	1914	1914	543
25°	1844	1844	1835	1827	1826	851
35°	1695	1695	1684	1675	1669	1059
45°	1438	1439	1424	1413	1408	1107
55°	1088	1081	1062	1049	1048	969
65°	677	674	663	647	644	668
75°	276	277	273	266	260	301
85°	41	41	41	41	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1951.0	1951.0	1951.0	1951.0	1951.0
2.5°	1951.6	1951.6	1950.5	1948.8	1952.7
5°	1948.8	1949.3	1948.2	1946.5	1949.3
7.5°	1944.8	1945.3	1943.6	1941.9	1944.2
10°	1938.5	1938.0	1936.3	1935.1	1938.0
12.5°	1929.5	1928.9	1927.2	1926.1	1928.3
15°	1918.1	1918.1	1915.3	1913.6	1914.1
17.5°	1904.5	1904.5	1900.5	1896.6	1897.7
20°	1888.6	1888.0	1882.4	1878.4	1877.8
22.5°	1868.8	1868.8	1860.8	1855.7	1854.0
25°	1844.4	1843.8	1834.7	1827.3	1826.2
27.5°	1816.6	1815.4	1804.7	1797.3	1794.4
30°	1782.0	1780.8	1769.5	1761.5	1758.1
32.5°	1741.1	1742.8	1729.8	1720.7	1717.3
35°	1694.6	1694.6	1684.4	1674.7	1669.1
37.5°	1641.3	1641.3	1631.6	1622.0	1615.2
40°	1580.6	1581.1	1570.9	1559.0	1553.3
42.5°	1512.5	1513.6	1500.0	1490.4	1484.1
45°	1438.2	1438.7	1424.0	1413.2	1408.1
47.5°	1357.6	1356.5	1340.0	1330.9	1325.8
50°	1271.4	1269.1	1250.9	1242.4	1237.9
52.5°	1181.2	1176.6	1160.7	1148.3	1144.3
55°	1087.6	1081.3	1061.5	1049.0	1047.8
57.5°	990.0	982.6	966.1	954.2	949.7
60°	883.3	881.6	868.0	853.8	850.4
62.5°	783.5	778.4	766.5	749.4	747.7
65°	676.8	674.0	663.2	647.3	643.9
67.5°	566.8	569.6	560.5	546.3	541.8
70°	467.5	469.2	459.0	445.9	444.2
72.5°	367.6	370.5	362.0	353.4	351.7
75°	276.3	277.4	273.4	266.1	260.4
77.5°	196.3	200.3	195.7	190.6	186.1
80°	136.7	130.5	131.1	128.8	123.7
82.5°	82.3	79.4	78.9	76.6	74.3
85°	41.4	40.8	41.4	40.8	38.6
87.5°	13.6	14.8	15.3	15.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)