

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: P412876

Luminaire Tested: **24PD-55-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412876
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-L835
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

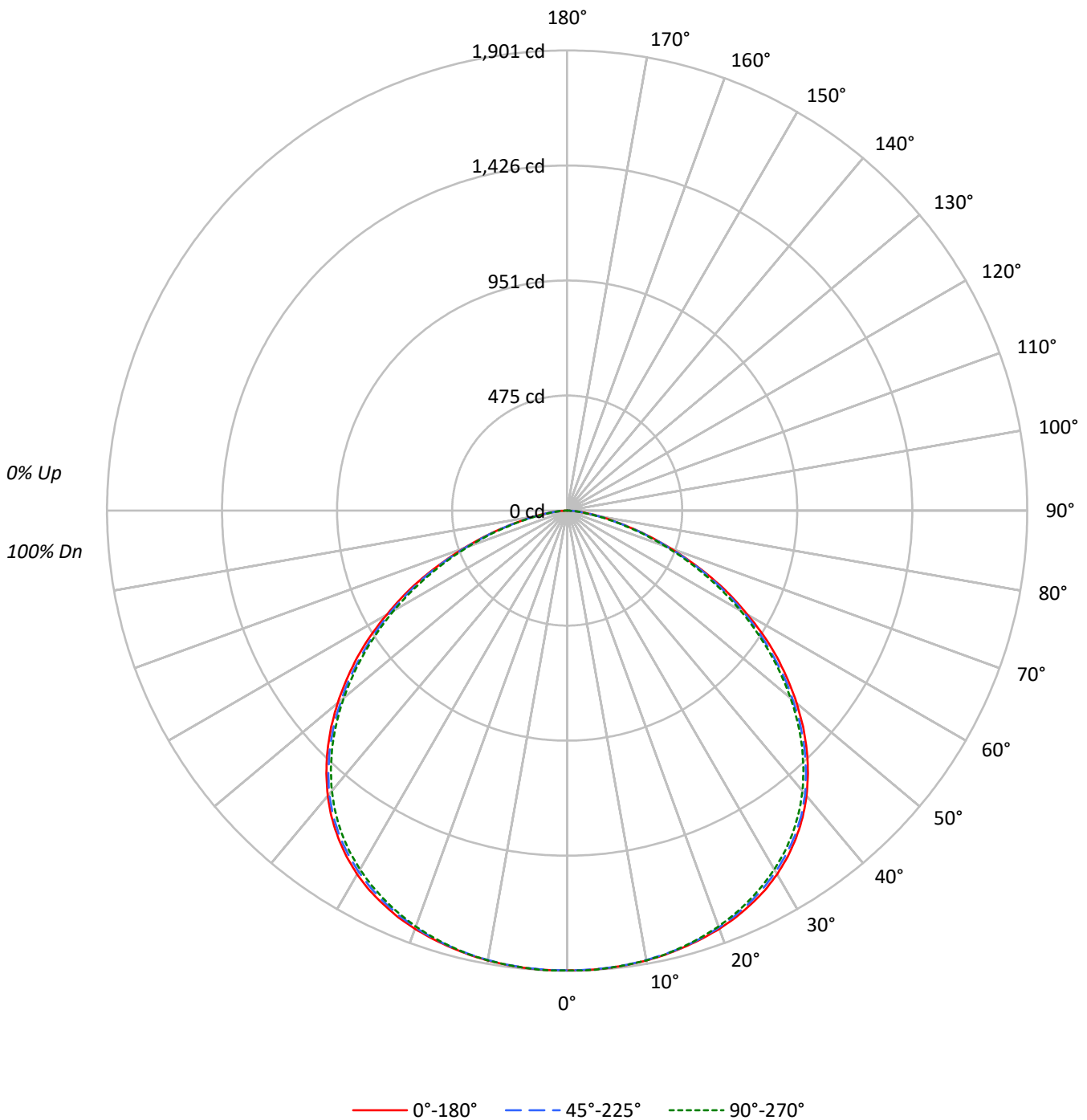
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5527.0 lumens
Efficiency: N/A
Efficacy: 132.5 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 (A_{in}): 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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2556	2556	2556
5°	2563	2562	2563
10°	2579	2576	2578
15°	2601	2597	2596
20°	2633	2624	2618
25°	2666	2652	2640
30°	2695	2676	2659
35°	2710	2694	2669
40°	2703	2686	2656
45°	2664	2638	2609
50°	2591	2549	2523
55°	2484	2424	2393
60°	2314	2274	2228
65°	2098	2056	1996
70°	1790	1758	1701
75°	1398	1384	1318
80°	1031	989	933
85°	622	622	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.3
10°-20°	527.3	9.5
20°-30°	824.2	14.9
30°-40°	1024.4	18.5
40°-50°	1067.3	19.3
50°-60°	926.1	16.8
60°-70°	636.8	11.5
70°-80°	287.4	5.2
80°-90°	52.7	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°	1532.3	27.7
0°-40°	2556.7	46.3
0°-60°	4550.1	82.3
0°-90°	5527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1897	1898	1897	1895	1898	181
15°	1867	1867	1865	1863	1864	528
25°	1796	1795	1786	1779	1778	828
35°	1650	1650	1640	1630	1625	1031
45°	1400	1401	1386	1376	1371	1078
55°	1059	1053	1033	1021	1020	944
65°	659	656	646	630	627	650
75°	269	270	266	259	254	293
85°	40	40	40	40	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.5	1899.5	1899.5	1899.5	1899.5
2.5°	1900.0	1900.0	1898.9	1897.3	1901.1
5°	1897.3	1897.8	1896.7	1895.1	1897.8
7.5°	1893.4	1893.9	1892.3	1890.6	1892.8
10°	1887.3	1886.8	1885.1	1884.0	1886.8
12.5°	1878.5	1877.9	1876.3	1875.2	1877.4
15°	1867.4	1867.4	1864.7	1863.0	1863.6
17.5°	1854.2	1854.2	1850.3	1846.4	1847.5
20°	1838.7	1838.2	1832.6	1828.8	1828.2
22.5°	1819.4	1819.4	1811.6	1806.7	1805.0
25°	1795.6	1795.1	1786.2	1779.1	1778.0
27.5°	1768.6	1767.5	1757.0	1749.8	1747.0
30°	1734.9	1733.8	1722.7	1715.0	1711.7
32.5°	1695.1	1696.8	1684.1	1675.2	1671.9
35°	1649.8	1649.8	1639.9	1630.5	1625.0
37.5°	1597.9	1597.9	1588.5	1579.1	1572.5
40°	1538.8	1539.3	1529.4	1517.8	1512.3
42.5°	1472.5	1473.6	1460.4	1451.0	1444.9
45°	1400.2	1400.7	1386.4	1375.9	1370.9
47.5°	1321.7	1320.6	1304.6	1295.8	1290.8
50°	1237.8	1235.6	1217.9	1209.6	1205.2
52.5°	1150.0	1145.5	1130.1	1117.9	1114.1
55°	1058.8	1052.7	1033.4	1021.3	1020.2
57.5°	963.8	956.6	940.6	929.0	924.6
60°	860.0	858.3	845.1	831.3	827.9
62.5°	762.8	757.8	746.2	729.6	728.0
65°	658.9	656.2	645.7	630.2	626.9
67.5°	551.8	554.5	545.7	531.9	527.5
70°	455.1	456.8	446.8	434.1	432.5
72.5°	357.9	360.7	352.4	344.1	342.4
75°	269.0	270.1	266.2	259.0	253.5
77.5°	191.1	195.0	190.6	185.6	181.2
80°	133.1	127.0	127.6	125.4	120.4
82.5°	80.1	77.3	76.8	74.6	72.4
85°	40.3	39.8	40.3	39.8	37.6
87.5°	13.3	14.4	14.9	14.9	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)