

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: P413250

Luminaire Tested: **24PD-70-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413250
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-70-PC3-L935
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

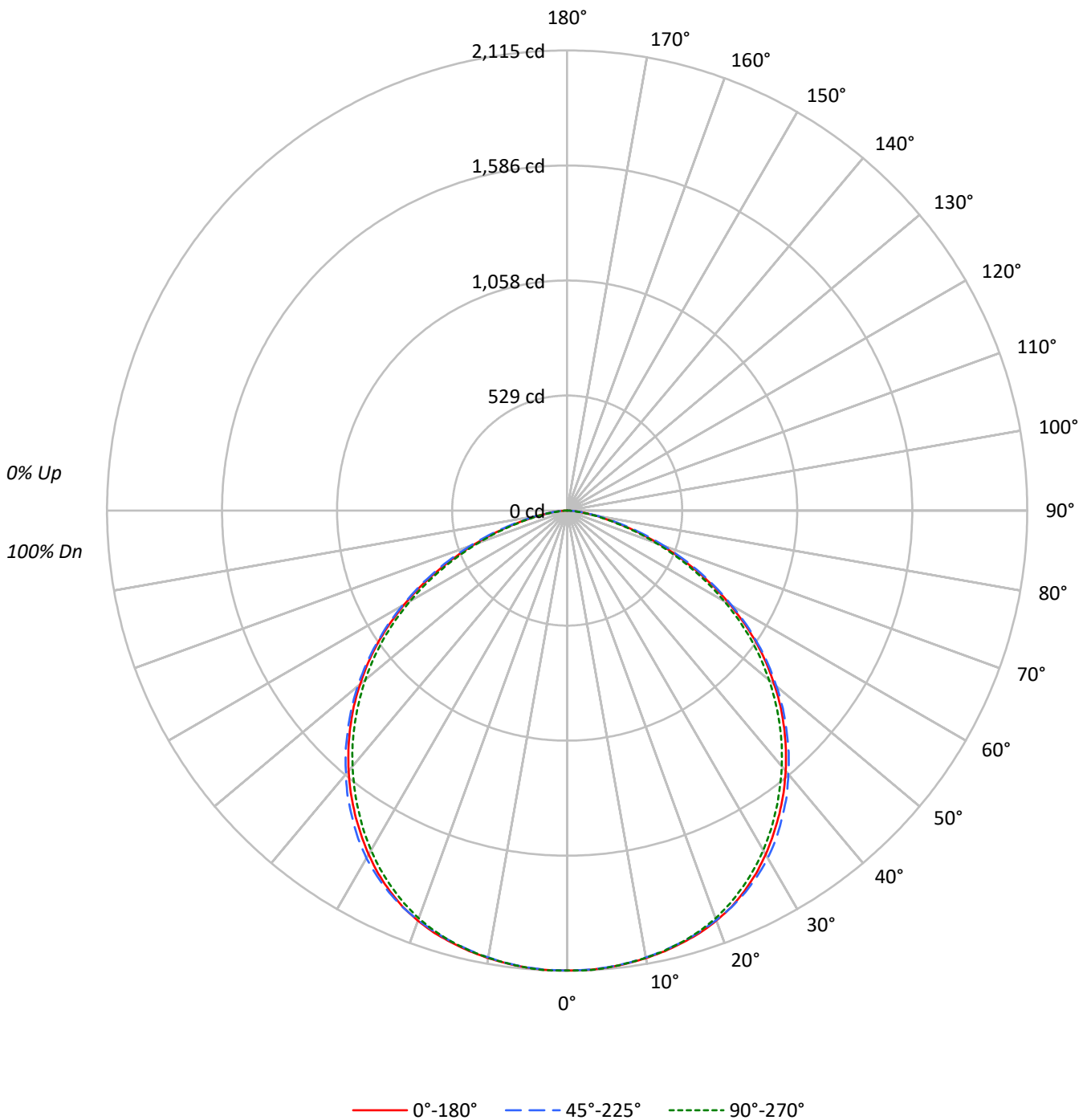
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5778.0 lumens
Efficiency: N/A
Efficacy: 110.5 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): 52.3
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	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°	2844	2844	2844
5°	2848	2846	2849
10°	2854	2850	2852
15°	2863	2857	2858
20°	2872	2868	2856
25°	2864	2875	2835
30°	2836	2866	2800
35°	2794	2830	2752
40°	2745	2778	2696
45°	2683	2712	2627
50°	2600	2629	2536
55°	2493	2515	2419
60°	2327	2354	2247
65°	2097	2150	2015
70°	1781	1859	1709
75°	1379	1480	1315
80°	1025	1071	930
85°	633	678	588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	3.5
10°-20°	579.7	10.0
20°-30°	887.8	15.4
30°-40°	1068.0	18.5
40°-50°	1089.0	18.8
50°-60°	944.2	16.3
60°-70°	654.6	11.3
70°-80°	299.0	5.2
80°-90°	55.2	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°	1668.0	28.9
0°-40°	2736.0	47.4
0°-60°	4769.2	82.5
0°-90°	5778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2109	2109	2107	2106	2109	201
15°	2055	2055	2051	2050	2052	581
25°	1929	1935	1936	1920	1910	888
35°	1701	1719	1723	1700	1675	1064
45°	1410	1428	1425	1406	1381	1087
55°	1063	1069	1072	1046	1031	947
65°	659	673	675	652	633	651
75°	265	280	285	275	253	290
85°	41	42	44	42	38	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2113.9	2113.9	2112.7	2111.5	2115.1
5°	2108.6	2108.6	2107.4	2106.3	2109.2
7.5°	2100.4	2099.8	2098.7	2097.5	2099.2
10°	2088.7	2088.1	2085.8	2085.2	2087.5
12.5°	2074.1	2073.5	2070.0	2070.0	2071.7
15°	2055.3	2054.7	2051.2	2049.5	2051.8
17.5°	2034.3	2033.7	2029.6	2024.9	2026.1
20°	2006.1	2006.1	2003.2	1996.2	1994.4
22.5°	1972.2	1973.9	1973.9	1960.5	1955.2
25°	1929.4	1934.7	1936.5	1919.5	1909.5
27.5°	1880.8	1889.0	1893.7	1872.0	1859.2
30°	1825.2	1838.7	1844.5	1821.1	1802.4
32.5°	1764.3	1781.3	1788.3	1765.5	1741.5
35°	1701.1	1719.2	1722.7	1700.5	1675.3
37.5°	1633.7	1652.5	1657.1	1637.2	1606.2
40°	1562.9	1581.6	1581.6	1565.2	1534.8
42.5°	1487.9	1507.8	1507.2	1487.3	1459.8
45°	1410.0	1427.6	1425.3	1405.9	1380.8
47.5°	1329.8	1340.9	1343.9	1321.0	1297.0
50°	1242.0	1253.1	1256.0	1230.3	1211.5
52.5°	1155.3	1162.3	1166.4	1136.6	1123.1
55°	1062.8	1069.2	1072.2	1045.8	1031.2
57.5°	965.0	973.2	976.7	950.4	934.0
60°	864.9	873.7	874.8	850.2	835.0
62.5°	763.0	774.7	777.0	752.5	734.3
65°	658.8	672.8	675.2	652.3	633.0
67.5°	554.5	573.3	573.9	555.1	532.3
70°	452.6	473.1	472.6	456.7	434.5
72.5°	355.4	374.2	378.3	363.6	342.0
75°	265.3	279.9	284.6	275.2	253.0
77.5°	188.6	202.0	206.1	197.3	180.9
80°	132.3	132.9	138.2	131.2	120.0
82.5°	82.0	80.8	82.6	79.6	73.2
85°	41.0	42.2	43.9	41.6	38.1
87.5°	14.1	14.6	15.8	15.8	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)