

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: P412567

Luminaire Tested: **24PD-70-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412567
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-70-PB1-L940
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

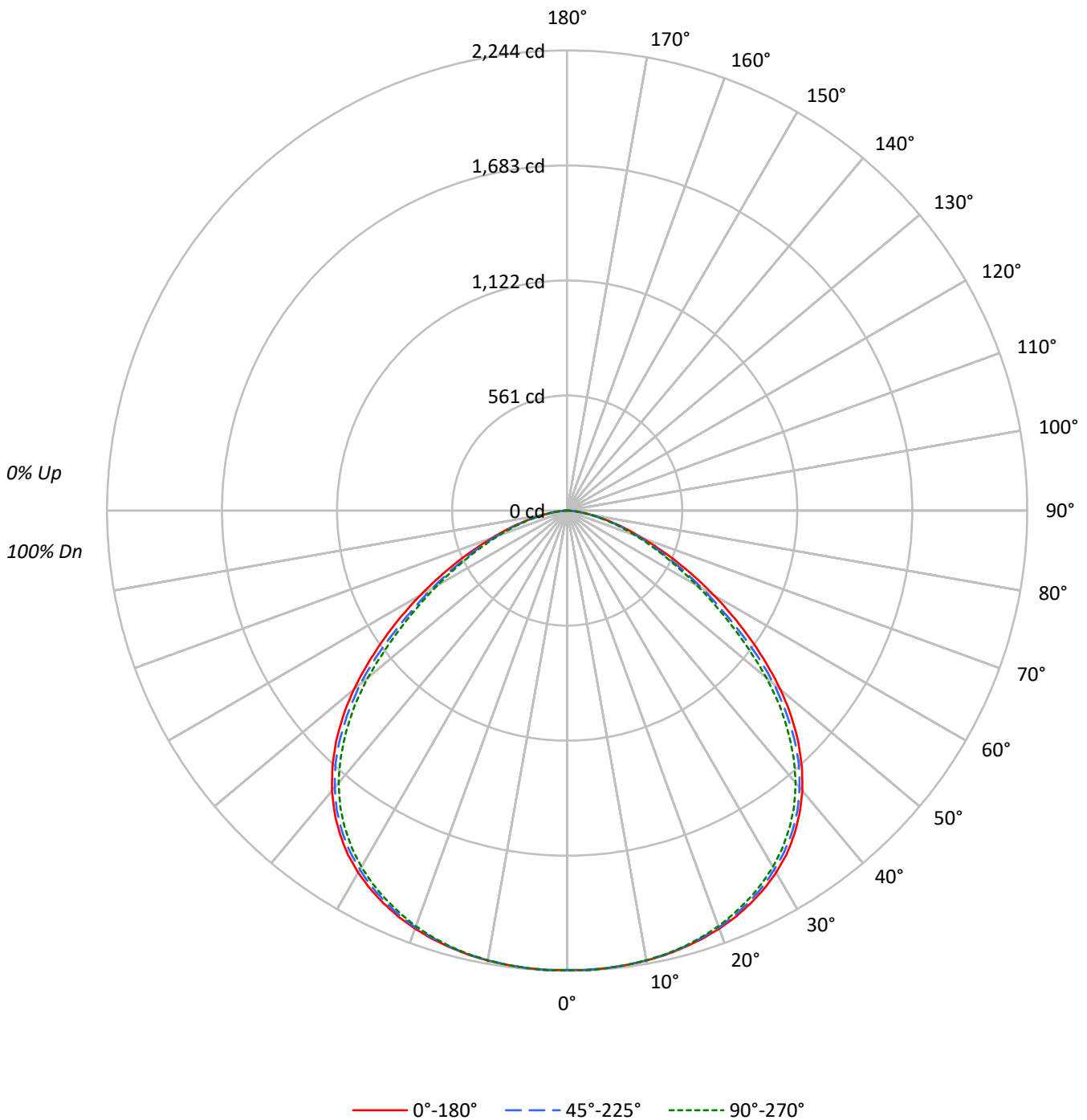
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5962.0 lumens
Efficiency: N/A
Efficacy: 114.0 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): 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	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°	3015	3015	3015
5°	3025	3025	3025
10°	3045	3042	3042
15°	3072	3068	3066
20°	3107	3097	3088
25°	3139	3124	3106
30°	3166	3141	3117
35°	3170	3143	3104
40°	3133	3097	3045
45°	3032	2976	2900
50°	2843	2755	2654
55°	2555	2403	2304
60°	2224	2047	1969
65°	1872	1732	1656
70°	1526	1448	1390
75°	1223	1180	1130
80°	938	865	842
85°	587	568	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.6
10°-20°	622.6	10.4
20°-30°	970.0	16.3
30°-40°	1193.3	20.0
40°-50°	1198.6	20.1
50°-60°	923.8	15.5
60°-70°	548.4	9.2
70°-80°	244.2	4.1
80°-90°	47.7	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°	1806.0	30.3
0°-40°	2999.3	50.3
0°-60°	5121.7	85.9
0°-90°	5962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2241	2241	2241	2241	2241	
5°	2239	2240	2239	2237	2239	213
15°	2206	2206	2203	2199	2201	624
25°	2115	2114	2104	2094	2092	975
35°	1930	1927	1913	1897	1890	1205
45°	1593	1589	1564	1538	1524	1223
55°	1089	1068	1024	994	982	974
65°	588	562	544	523	520	587
75°	235	230	227	219	217	255
85°	38	36	37	35	37	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2240.6	2240.6	2240.6	2240.6	2240.6
2.5°	2241.8	2241.2	2241.2	2238.8	2243.6
5°	2239.4	2240.0	2239.4	2237.0	2239.4
7.5°	2234.7	2235.3	2234.1	2231.7	2234.1
10°	2228.7	2228.7	2226.3	2225.2	2226.9
12.5°	2218.6	2218.6	2216.2	2214.5	2216.2
15°	2205.6	2205.6	2202.6	2199.0	2200.8
17.5°	2189.5	2189.5	2184.8	2180.0	2181.2
20°	2169.9	2169.3	2162.8	2156.3	2156.9
22.5°	2145.0	2144.4	2136.1	2128.4	2126.0
25°	2114.7	2114.1	2104.0	2094.5	2092.1
27.5°	2079.7	2077.3	2066.0	2055.3	2052.9
30°	2038.1	2036.3	2021.5	2010.8	2006.0
32.5°	1990.0	1985.2	1971.6	1958.5	1952.0
35°	1930.0	1927.0	1913.4	1897.4	1889.6
37.5°	1862.3	1859.3	1844.5	1826.7	1817.8
40°	1783.9	1781.5	1763.1	1744.7	1733.4
42.5°	1693.7	1691.9	1672.3	1646.7	1634.9
45°	1593.3	1589.1	1564.2	1538.1	1523.8
47.5°	1481.7	1474.5	1444.2	1419.3	1403.9
50°	1358.1	1348.6	1316.0	1283.9	1267.9
52.5°	1224.5	1207.9	1174.0	1137.2	1121.8
55°	1089.1	1068.3	1024.4	993.5	982.2
57.5°	956.7	926.4	884.8	862.9	851.6
60°	826.6	793.4	760.7	739.3	731.6
62.5°	702.5	674.6	646.7	625.3	620.6
65°	587.9	562.4	544.0	523.2	520.2
67.5°	481.0	469.1	452.5	434.7	432.3
70°	387.8	383.0	368.2	357.5	353.3
72.5°	309.4	304.6	294.0	286.2	285.0
75°	235.2	230.4	226.9	219.1	217.3
77.5°	167.5	168.1	165.1	160.9	162.1
80°	121.1	114.0	111.6	109.3	108.7
82.5°	74.2	70.1	68.3	67.7	68.9
85°	38.0	36.2	36.8	35.0	36.8
87.5°	13.1	13.1	13.7	13.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)