

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: P413251

Luminaire Tested: **24PD-70-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413251
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-L940
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

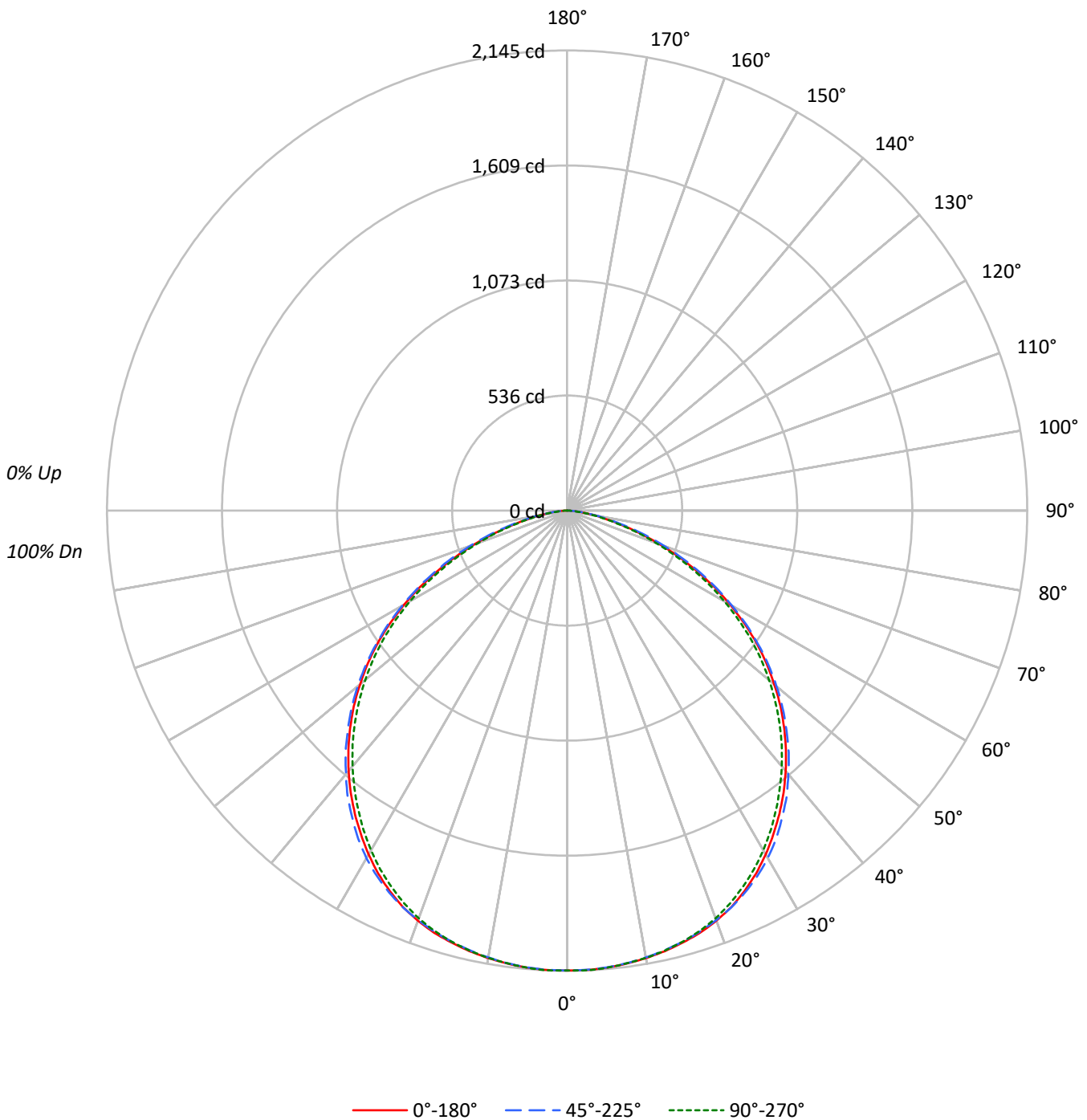
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5860.0 lumens
Efficiency: N/A
Efficacy: 112.0 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°	2885	2885	2885
5°	2888	2887	2889
10°	2894	2890	2893
15°	2904	2898	2899
20°	2913	2909	2896
25°	2905	2916	2875
30°	2876	2906	2840
35°	2834	2870	2791
40°	2784	2817	2734
45°	2721	2751	2665
50°	2637	2667	2572
55°	2529	2551	2453
60°	2361	2387	2279
65°	2127	2180	2044
70°	1806	1886	1734
75°	1398	1500	1334
80°	1040	1086	943
85°	642	687	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.5
10°-20°	587.9	10.0
20°-30°	900.4	15.4
30°-40°	1083.2	18.5
40°-50°	1104.5	18.8
50°-60°	957.6	16.3
60°-70°	663.9	11.3
70°-80°	303.2	5.2
80°-90°	56.0	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°	1691.7	28.9
0°-40°	2774.9	47.4
0°-60°	4836.9	82.5
0°-90°	5860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2138	2138	2137	2136	2139	203
15°	2084	2084	2080	2079	2081	589
25°	1957	1962	1964	1947	1937	901
35°	1725	1744	1747	1725	1699	1079
45°	1430	1448	1446	1426	1400	1102
55°	1078	1084	1087	1061	1046	960
65°	668	682	685	662	642	661
75°	269	284	289	279	257	294
85°	42	43	44	42	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.9	2143.9	2143.9	2143.9	2143.9
2.5°	2143.9	2143.9	2142.7	2141.5	2145.1
5°	2138.5	2138.5	2137.4	2136.2	2139.1
7.5°	2130.2	2129.6	2128.4	2127.3	2129.0
10°	2118.4	2117.8	2115.4	2114.8	2117.2
12.5°	2103.5	2102.9	2099.3	2099.3	2101.1
15°	2084.5	2083.9	2080.3	2078.6	2080.9
17.5°	2063.1	2062.5	2058.4	2053.6	2054.8
20°	2034.6	2034.6	2031.6	2024.5	2022.7
22.5°	2000.2	2002.0	2002.0	1988.3	1982.9
25°	1956.8	1962.2	1963.9	1946.7	1936.6
27.5°	1907.5	1915.8	1920.6	1898.6	1885.6
30°	1851.1	1864.8	1870.7	1846.9	1827.9
32.5°	1789.3	1806.6	1813.7	1790.5	1766.2
35°	1725.2	1743.6	1747.2	1724.6	1699.1
37.5°	1656.9	1675.9	1680.7	1660.5	1629.0
40°	1585.1	1604.1	1604.1	1587.4	1556.5
42.5°	1509.0	1529.2	1528.6	1508.4	1480.5
45°	1430.0	1447.9	1445.5	1425.9	1400.4
47.5°	1348.7	1360.0	1362.9	1339.8	1315.4
50°	1259.6	1270.9	1273.9	1247.7	1228.7
52.5°	1171.7	1178.8	1183.0	1152.7	1139.1
55°	1077.9	1084.4	1087.4	1060.7	1045.8
57.5°	978.7	987.0	990.6	963.9	947.2
60°	877.2	886.1	887.2	862.3	846.9
62.5°	773.8	785.7	788.1	763.1	744.7
65°	668.1	682.4	684.7	661.6	642.0
67.5°	562.4	581.4	582.0	563.0	539.8
70°	459.1	479.9	479.3	463.2	440.7
72.5°	360.5	379.5	383.6	368.8	346.8
75°	269.0	283.9	288.6	279.1	256.6
77.5°	191.2	204.9	209.0	200.1	183.5
80°	134.2	134.8	140.2	133.0	121.7
82.5°	83.1	82.0	83.7	80.8	74.2
85°	41.6	42.8	44.5	42.2	38.6
87.5°	14.3	14.8	16.0	16.0	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)