

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: P412909

Luminaire Tested: **24PD-70-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412909
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-70-PP3-L940
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

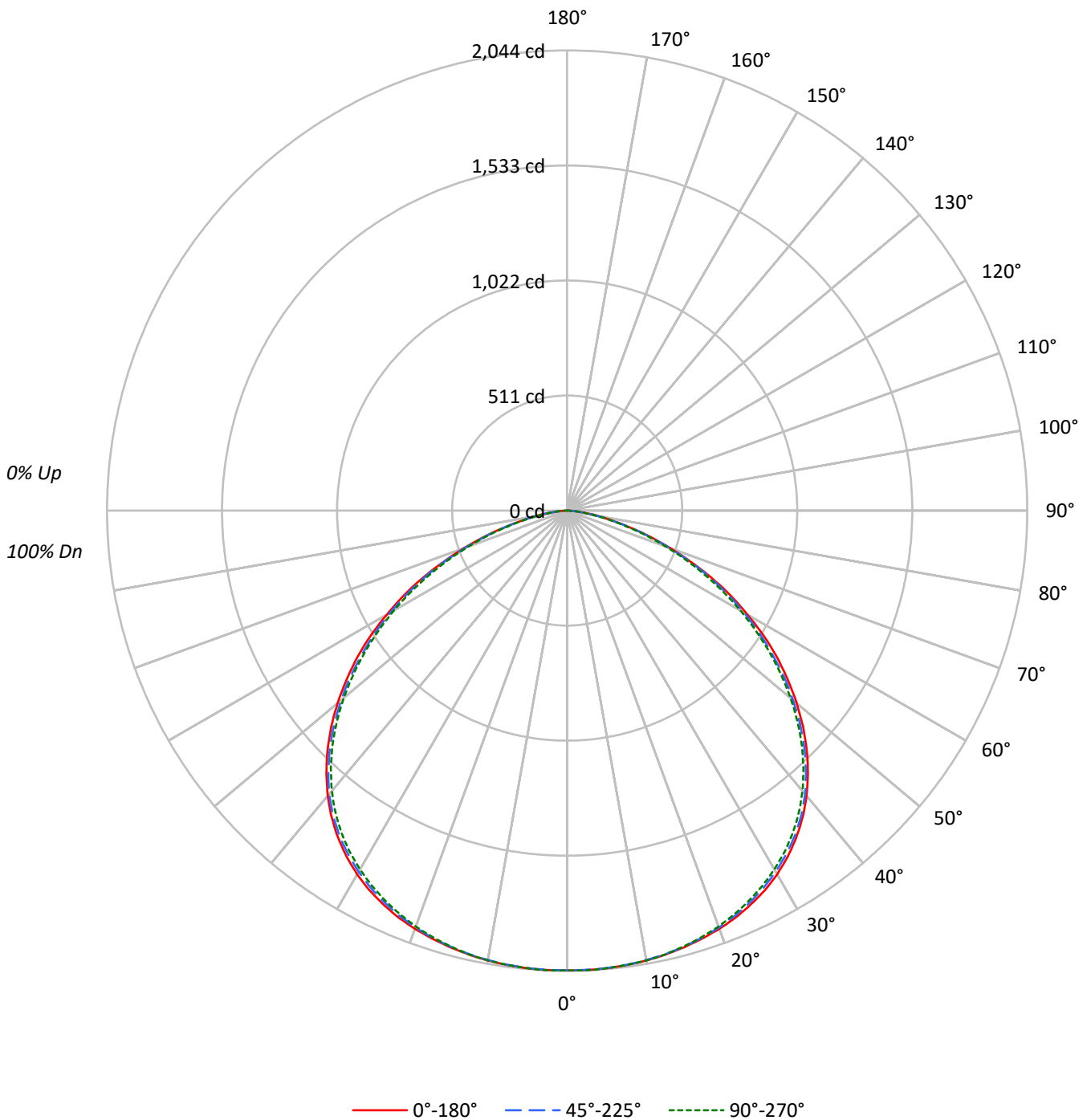
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5943.0 lumens
Efficiency: N/A
Efficacy: 113.6 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): 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

TEST NUMBER: P412909
CATALOG NUMBER: 24PD-70-PP3-L940

Luminous Intensity Polar Plot





TEST NUMBER: P412909

CATALOG NUMBER: 24PD-70-PP3-L940

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°	2748	2748	2748
5°	2755	2755	2756
10°	2773	2769	2772
15°	2797	2793	2791
20°	2831	2822	2815
25°	2866	2851	2838
30°	2898	2878	2859
35°	2914	2896	2870
40°	2906	2888	2856
45°	2865	2837	2805
50°	2786	2741	2713
55°	2671	2607	2573
60°	2488	2445	2396
65°	2256	2210	2146
70°	1925	1890	1829
75°	1503	1488	1417
80°	1109	1063	1003
85°	670	670	624



TEST NUMBER: P412909

CATALOG NUMBER: 24PD-70-PP3-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	3.3
10°-20°	567.0	9.5
20°-30°	886.3	14.9
30°-40°	1101.5	18.5
40°-50°	1147.6	19.3
50°-60°	995.8	16.8
60°-70°	684.8	11.5
70°-80°	309.0	5.2
80°-90°	56.6	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°	1647.6	27.7
0°-40°	2749.1	46.3
0°-60°	4892.6	82.3
0°-90°	5943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2040	2041	2040	2038	2041	194
15°	2008	2008	2005	2003	2004	568
25°	1931	1930	1921	1913	1912	891
35°	1774	1774	1763	1753	1747	1109
45°	1506	1506	1491	1479	1474	1159
55°	1138	1132	1111	1098	1097	1015
65°	708	706	694	678	674	699
75°	289	290	286	278	273	315
85°	43	43	43	43	40	59
90°	0	0	0	0	0	



TEST NUMBER: P412909

CATALOG NUMBER: 24PD-70-PP3-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2043.0	2043.0	2041.8	2040.1	2044.2
5°	2040.1	2040.7	2039.5	2037.7	2040.7
7.5°	2035.9	2036.5	2034.7	2032.9	2035.3
10°	2029.4	2028.8	2027.0	2025.8	2028.8
12.5°	2019.9	2019.3	2017.5	2016.3	2018.7
15°	2008.0	2008.0	2005.0	2003.2	2003.8
17.5°	1993.7	1993.7	1989.6	1985.4	1986.6
20°	1977.1	1976.5	1970.6	1966.4	1965.8
22.5°	1956.3	1956.3	1948.0	1942.7	1940.9
25°	1930.8	1930.2	1920.7	1913.0	1911.8
27.5°	1901.7	1900.5	1889.2	1881.5	1878.5
30°	1865.5	1864.3	1852.4	1844.1	1840.5
32.5°	1822.7	1824.5	1810.8	1801.3	1797.7
35°	1774.0	1774.0	1763.3	1753.2	1747.3
37.5°	1718.2	1718.2	1708.1	1698.0	1690.8
40°	1654.6	1655.2	1644.5	1632.0	1626.1
42.5°	1583.3	1584.5	1570.3	1560.2	1553.7
45°	1505.5	1506.1	1490.7	1479.4	1474.1
47.5°	1421.2	1420.0	1402.8	1393.3	1388.0
50°	1330.9	1328.6	1309.6	1300.6	1295.9
52.5°	1236.5	1231.8	1215.1	1202.1	1197.9
55°	1138.5	1132.0	1111.2	1098.1	1096.9
57.5°	1036.4	1028.6	1011.4	998.9	994.2
60°	924.7	922.9	908.7	893.8	890.3
62.5°	820.2	814.8	802.4	784.5	782.8
65°	708.5	705.6	694.3	677.6	674.1
67.5°	593.3	596.3	586.8	571.9	567.2
70°	489.4	491.2	480.5	466.8	465.0
72.5°	384.8	387.8	378.9	370.0	368.2
75°	289.2	290.4	286.3	278.5	272.6
77.5°	205.5	209.6	204.9	199.6	194.8
80°	143.1	136.6	137.2	134.8	129.5
82.5°	86.1	83.1	82.6	80.2	77.8
85°	43.4	42.8	43.4	42.8	40.4
87.5°	14.3	15.4	16.0	16.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)