

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: P413249

Luminaire Tested: **24PD-70-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413249
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-L930
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

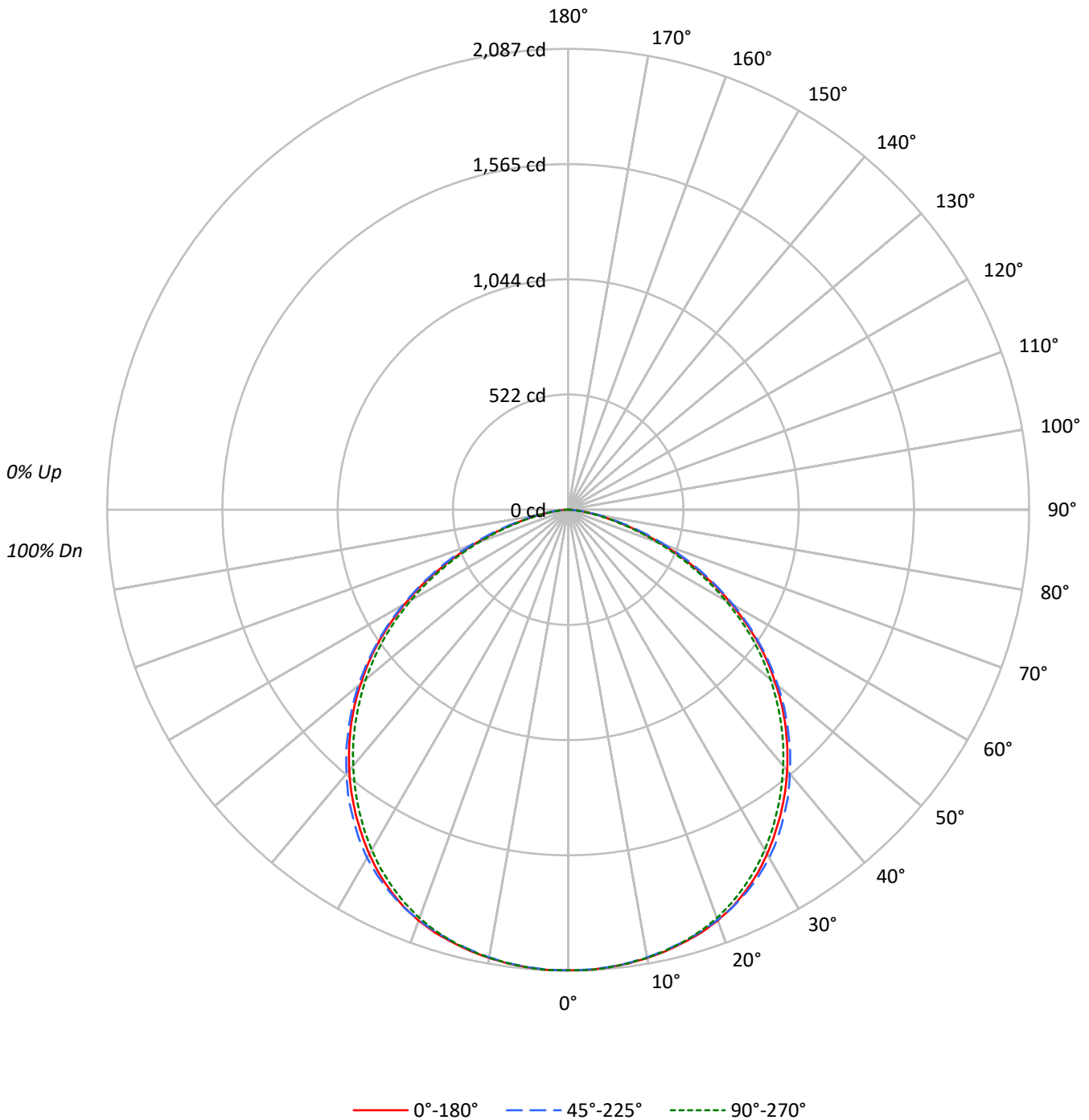
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5702.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

TEST NUMBER: P413249
CATALOG NUMBER: 24PD-70-PC3-L930

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°	2807	2807	2807
5°	2811	2809	2811
10°	2816	2812	2815
15°	2825	2820	2820
20°	2835	2831	2818
25°	2827	2837	2798
30°	2798	2828	2763
35°	2757	2792	2716
40°	2709	2741	2660
45°	2648	2676	2593
50°	2565	2595	2503
55°	2460	2482	2387
60°	2297	2323	2217
65°	2070	2121	1989
70°	1757	1834	1687
75°	1361	1460	1298
80°	1012	1057	918
85°	625	668	580



TEST NUMBER: P413249

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.5
10°-20°	572.1	10.0
20°-30°	876.1	15.4
30°-40°	1054.0	18.5
40°-50°	1074.7	18.8
50°-60°	931.7	16.3
60°-70°	646.0	11.3
70°-80°	295.0	5.2
80°-90°	54.5	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°	1646.1	28.9
0°-40°	2700.1	47.4
0°-60°	4706.5	82.5
0°-90°	5702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2081	2081	2080	2079	2082	198
15°	2028	2028	2024	2022	2025	573
25°	1904	1909	1911	1894	1884	877
35°	1679	1697	1700	1678	1653	1050
45°	1392	1409	1406	1387	1363	1072
55°	1049	1055	1058	1032	1018	935
65°	650	664	666	644	625	643
75°	262	276	281	272	250	286
85°	40	42	43	41	38	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.1	2086.1	2086.1	2086.1	2086.1
2.5°	2086.1	2086.1	2084.9	2083.8	2087.2
5°	2080.9	2080.9	2079.7	2078.6	2081.5
7.5°	2072.8	2072.2	2071.1	2069.9	2071.6
10°	2061.2	2060.7	2058.3	2057.8	2060.1
12.5°	2046.8	2046.2	2042.7	2042.7	2044.5
15°	2028.3	2027.7	2024.3	2022.5	2024.8
17.5°	2007.5	2006.9	2002.9	1998.2	1999.4
20°	1979.8	1979.8	1976.9	1969.9	1968.2
22.5°	1946.2	1948.0	1948.0	1934.7	1929.5
25°	1904.1	1909.3	1911.0	1894.2	1884.4
27.5°	1856.1	1864.2	1868.8	1847.4	1834.7
30°	1801.2	1814.5	1820.3	1797.2	1778.7
32.5°	1741.1	1757.9	1764.8	1742.3	1718.6
35°	1678.7	1696.6	1700.1	1678.1	1653.3
37.5°	1612.2	1630.7	1635.4	1615.7	1585.1
40°	1542.3	1560.8	1560.8	1544.6	1514.6
42.5°	1468.3	1488.0	1487.4	1467.8	1440.6
45°	1391.5	1408.8	1406.5	1387.4	1362.6
47.5°	1312.3	1323.3	1326.2	1303.7	1280.0
50°	1225.6	1236.6	1239.5	1214.1	1195.6
52.5°	1140.1	1147.1	1151.1	1121.6	1108.3
55°	1048.8	1055.2	1058.1	1032.1	1017.6
57.5°	952.3	960.4	963.9	937.9	921.7
60°	853.5	862.2	863.3	839.1	824.0
62.5°	753.0	764.5	766.8	742.6	724.6
65°	650.1	664.0	666.3	643.7	624.7
67.5°	547.2	565.7	566.3	547.8	525.3
70°	446.7	466.9	466.3	450.7	428.8
72.5°	350.8	369.3	373.3	358.9	337.5
75°	261.8	276.2	280.8	271.6	249.6
77.5°	186.1	199.4	203.4	194.7	178.6
80°	130.6	131.2	136.4	129.4	118.5
82.5°	80.9	79.7	81.5	78.6	72.2
85°	40.5	41.6	43.3	41.0	37.6
87.5°	13.9	14.4	15.6	15.6	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)