

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: P413257

Luminaire Tested: **24PD-75-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413257
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-75-PC3-L927
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

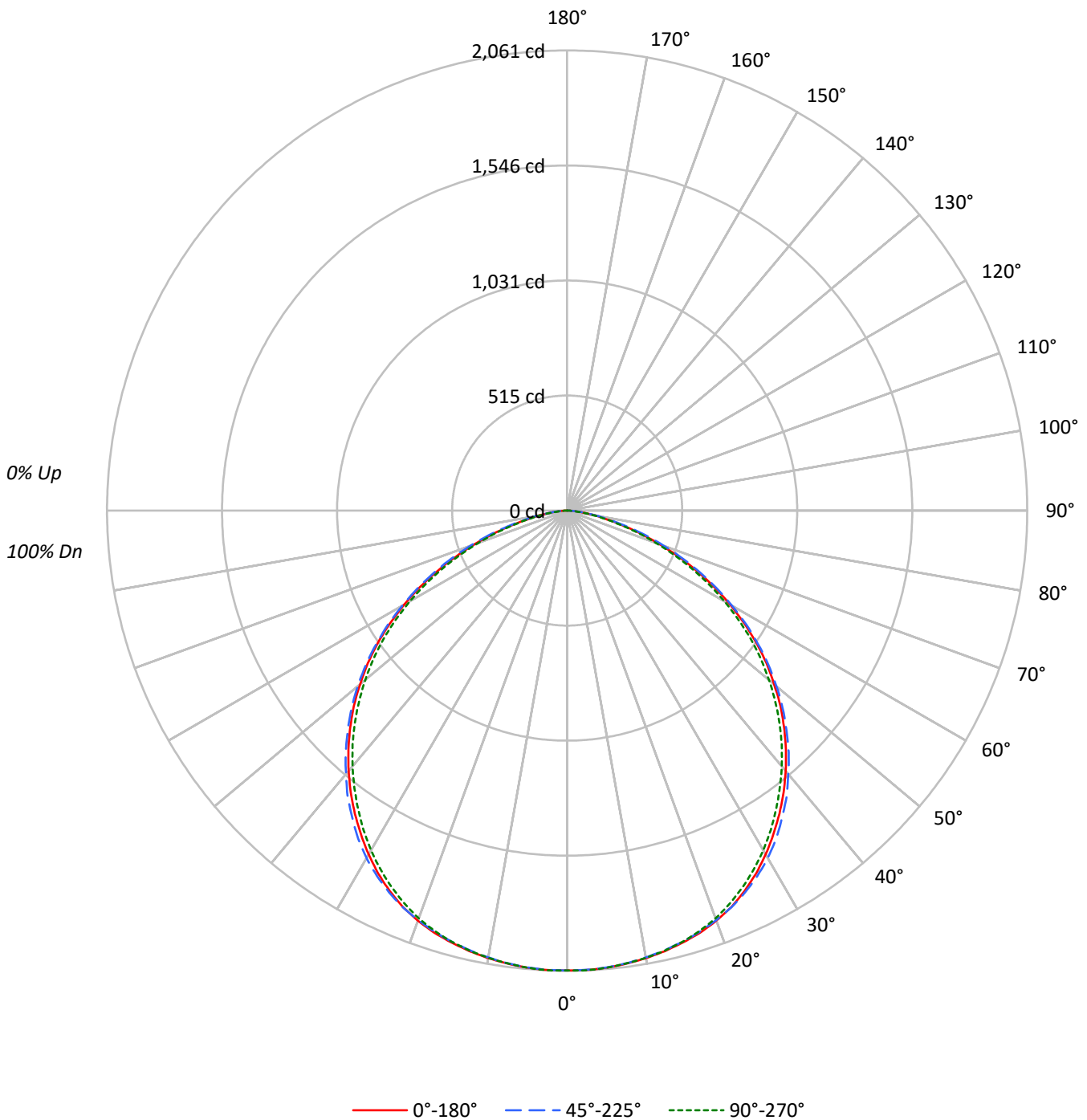
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5630.0 lumens
Efficiency: N/A
Efficacy: 100.0 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): 56.3
Input Voltage (V): NR
Input Current (A_{in}): 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: P413257
CATALOG NUMBER: 24PD-75-PC3-L927

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°	2771	2771	2771
5°	2775	2774	2776
10°	2781	2777	2779
15°	2790	2784	2785
20°	2799	2795	2782
25°	2791	2801	2762
30°	2763	2792	2728
35°	2723	2757	2681
40°	2675	2707	2627
45°	2614	2643	2560
50°	2533	2562	2471
55°	2429	2451	2357
60°	2268	2294	2189
65°	2044	2095	1964
70°	1735	1811	1666
75°	1344	1442	1281
80°	999	1044	907
85°	616	661	573



TEST NUMBER: P413257

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.5
10°-20°	564.9	10.0
20°-30°	865.0	15.4
30°-40°	1040.7	18.5
40°-50°	1061.2	18.8
50°-60°	920.0	16.3
60°-70°	637.8	11.3
70°-80°	291.3	5.2
80°-90°	53.8	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°	1625.3	28.9
0°-40°	2666.0	47.4
0°-60°	4647.1	82.5
0°-90°	5630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2055	2055	2054	2052	2055	196
15°	2003	2002	1999	1997	1999	566
25°	1880	1885	1887	1870	1861	866
35°	1658	1675	1679	1657	1632	1036
45°	1374	1391	1389	1370	1345	1059
55°	1036	1042	1045	1019	1005	923
65°	642	656	658	636	617	635
75°	258	273	277	268	246	283
85°	40	41	43	40	37	54
90°	0	0	0	0	0	



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CATALOG NUMBER: 24PD-75-PC3-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.7	2059.7	2059.7	2059.7	2059.7
2.5°	2059.7	2059.7	2058.6	2057.5	2060.9
5°	2054.6	2054.6	2053.5	2052.3	2055.2
7.5°	2046.6	2046.0	2044.9	2043.8	2045.5
10°	2035.2	2034.6	2032.4	2031.8	2034.1
12.5°	2020.9	2020.4	2016.9	2016.9	2018.7
15°	2002.7	2002.1	1998.7	1997.0	1999.3
17.5°	1982.1	1981.6	1977.6	1973.0	1974.2
20°	1954.8	1954.8	1951.9	1945.1	1943.3
22.5°	1921.7	1923.4	1923.4	1910.3	1905.1
25°	1880.0	1885.1	1886.9	1870.3	1860.6
27.5°	1832.7	1840.6	1845.2	1824.1	1811.5
30°	1778.5	1791.6	1797.3	1774.5	1756.2
32.5°	1719.1	1735.7	1742.5	1720.3	1696.9
35°	1657.5	1675.2	1678.6	1656.9	1632.4
37.5°	1591.9	1610.1	1614.7	1595.3	1565.1
40°	1522.8	1541.1	1541.1	1525.1	1495.5
42.5°	1449.8	1469.2	1468.6	1449.2	1422.4
45°	1373.9	1391.0	1388.8	1369.9	1345.4
47.5°	1295.8	1306.6	1309.4	1287.2	1263.8
50°	1210.2	1221.0	1223.9	1198.8	1180.5
52.5°	1125.7	1132.6	1136.6	1107.5	1094.3
55°	1035.6	1041.9	1044.7	1019.0	1004.8
57.5°	940.3	948.3	951.7	926.0	910.1
60°	842.7	851.3	852.4	828.5	813.6
62.5°	743.4	754.9	757.1	733.2	715.5
65°	641.9	655.6	657.9	635.6	616.8
67.5°	540.3	558.6	559.2	540.9	518.6
70°	441.0	461.0	460.4	445.0	423.4
72.5°	346.3	364.6	368.6	354.3	333.2
75°	258.5	272.7	277.3	268.2	246.5
77.5°	183.7	196.8	200.8	192.3	176.3
80°	128.9	129.5	134.7	127.8	117.0
82.5°	79.9	78.7	80.4	77.6	71.3
85°	39.9	41.1	42.8	40.5	37.1
87.5°	13.7	14.3	15.4	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)