

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: P412924

Luminaire Tested: **24PD-80-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412924
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-80-PP3-L927
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

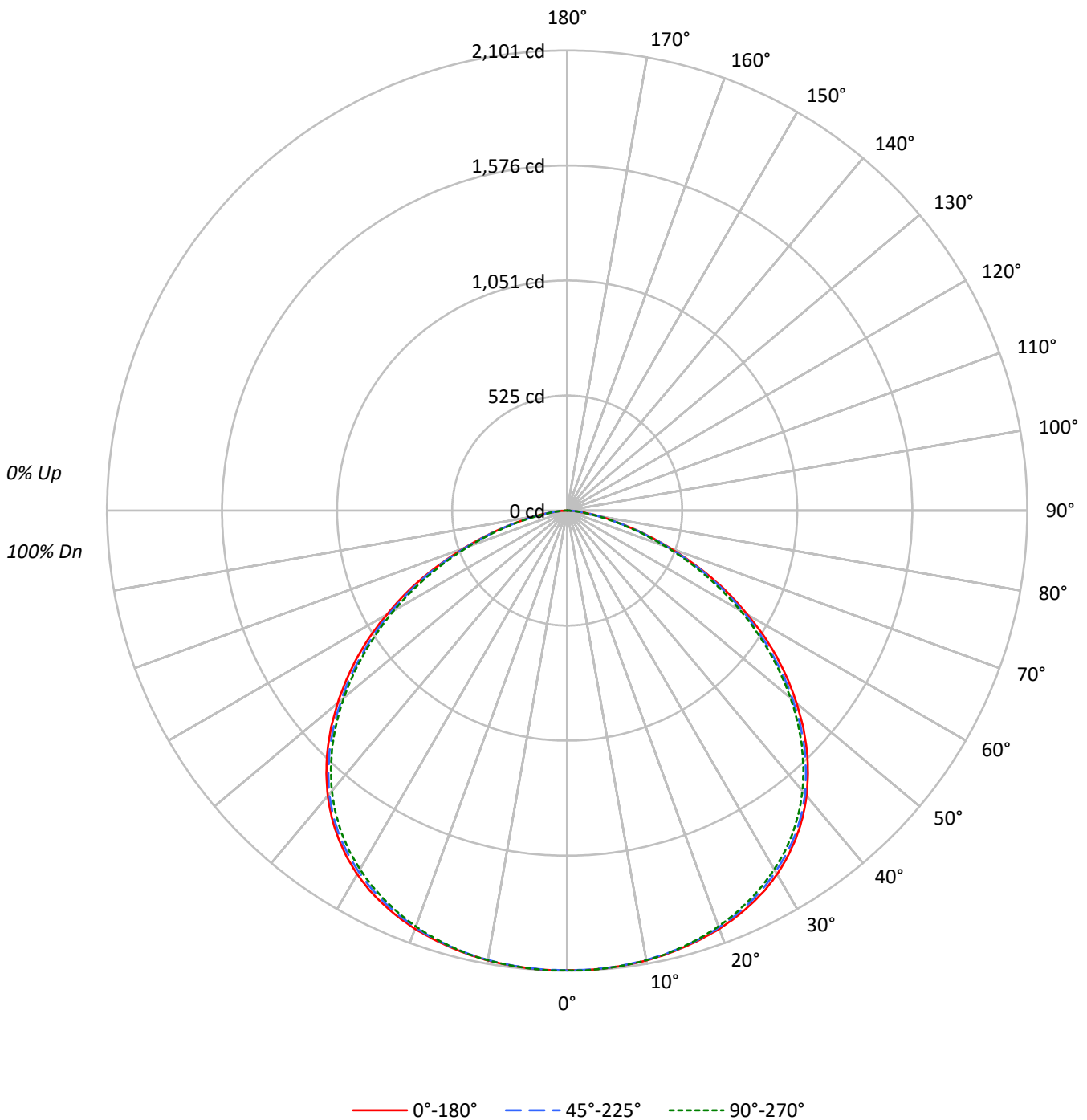
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6108.0 lumens
Efficiency: N/A
Efficacy: 101.3 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): 60.3
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: P412924
CATALOG NUMBER: 24PD-80-PP3-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	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2824	2824	2824
5°	2832	2831	2833
10°	2850	2846	2849
15°	2875	2870	2869
20°	2909	2900	2893
25°	2946	2931	2917
30°	2979	2958	2939
35°	2995	2977	2950
40°	2987	2969	2935
45°	2944	2915	2883
50°	2863	2817	2788
55°	2745	2679	2645
60°	2558	2513	2462
65°	2318	2272	2206
70°	1979	1943	1880
75°	1546	1529	1457
80°	1140	1093	1031
85°	689	689	641



TEST NUMBER: P412924

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.3
10°-20°	582.8	9.5
20°-30°	910.9	14.9
30°-40°	1132.1	18.5
40°-50°	1179.5	19.3
50°-60°	1023.5	16.8
60°-70°	703.8	11.5
70°-80°	317.6	5.2
80°-90°	58.2	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°	1693.4	27.7
0°-40°	2825.4	46.3
0°-60°	5028.4	82.3
0°-90°	6108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2097	2097	2096	2094	2097	200
15°	2064	2064	2061	2059	2060	584
25°	1984	1984	1974	1966	1965	915
35°	1823	1823	1812	1802	1796	1139
45°	1547	1548	1532	1520	1515	1191
55°	1170	1163	1142	1129	1127	1043
65°	728	725	714	696	693	719
75°	297	298	294	286	280	324
85°	45	44	45	44	42	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.1	2099.1	2099.1	2099.1	2099.1
2.5°	2099.8	2099.8	2098.5	2096.7	2101.0
5°	2096.7	2097.3	2096.1	2094.3	2097.3
7.5°	2092.4	2093.0	2091.2	2089.4	2091.8
10°	2085.7	2085.1	2083.3	2082.1	2085.1
12.5°	2075.9	2075.3	2073.5	2072.3	2074.7
15°	2063.7	2063.7	2060.7	2058.9	2059.5
17.5°	2049.1	2049.1	2044.8	2040.5	2041.8
20°	2032.0	2031.4	2025.3	2021.0	2020.4
22.5°	2010.6	2010.6	2002.1	1996.6	1994.8
25°	1984.4	1983.8	1974.0	1966.1	1964.9
27.5°	1954.5	1953.3	1941.7	1933.7	1930.7
30°	1917.2	1916.0	1903.8	1895.3	1891.6
32.5°	1873.3	1875.1	1861.1	1851.3	1847.7
35°	1823.2	1823.2	1812.3	1801.9	1795.8
37.5°	1765.9	1765.9	1755.5	1745.1	1737.8
40°	1700.6	1701.2	1690.2	1677.4	1671.3
42.5°	1627.3	1628.5	1613.9	1603.5	1596.8
45°	1547.3	1548.0	1532.1	1520.5	1515.0
47.5°	1460.7	1459.4	1441.7	1432.0	1426.5
50°	1367.9	1365.4	1345.9	1336.8	1331.9
52.5°	1270.8	1266.0	1248.9	1235.4	1231.2
55°	1170.1	1163.4	1142.0	1128.6	1127.4
57.5°	1065.1	1057.2	1039.5	1026.7	1021.8
60°	950.4	948.6	933.9	918.6	915.0
62.5°	843.0	837.5	824.6	806.3	804.5
65°	728.2	725.1	713.5	696.5	692.8
67.5°	609.8	612.8	603.1	587.8	582.9
70°	503.0	504.8	493.8	479.8	477.9
72.5°	395.5	398.6	389.4	380.3	378.4
75°	297.3	298.5	294.2	286.3	280.2
77.5°	211.2	215.5	210.6	205.1	200.2
80°	147.1	140.4	141.0	138.6	133.1
82.5°	88.5	85.5	84.8	82.4	80.0
85°	44.6	43.9	44.6	43.9	41.5
87.5°	14.6	15.9	16.5	16.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)