

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: P412573

Luminaire Tested: **24PD-75-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-75-PB1-L927
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

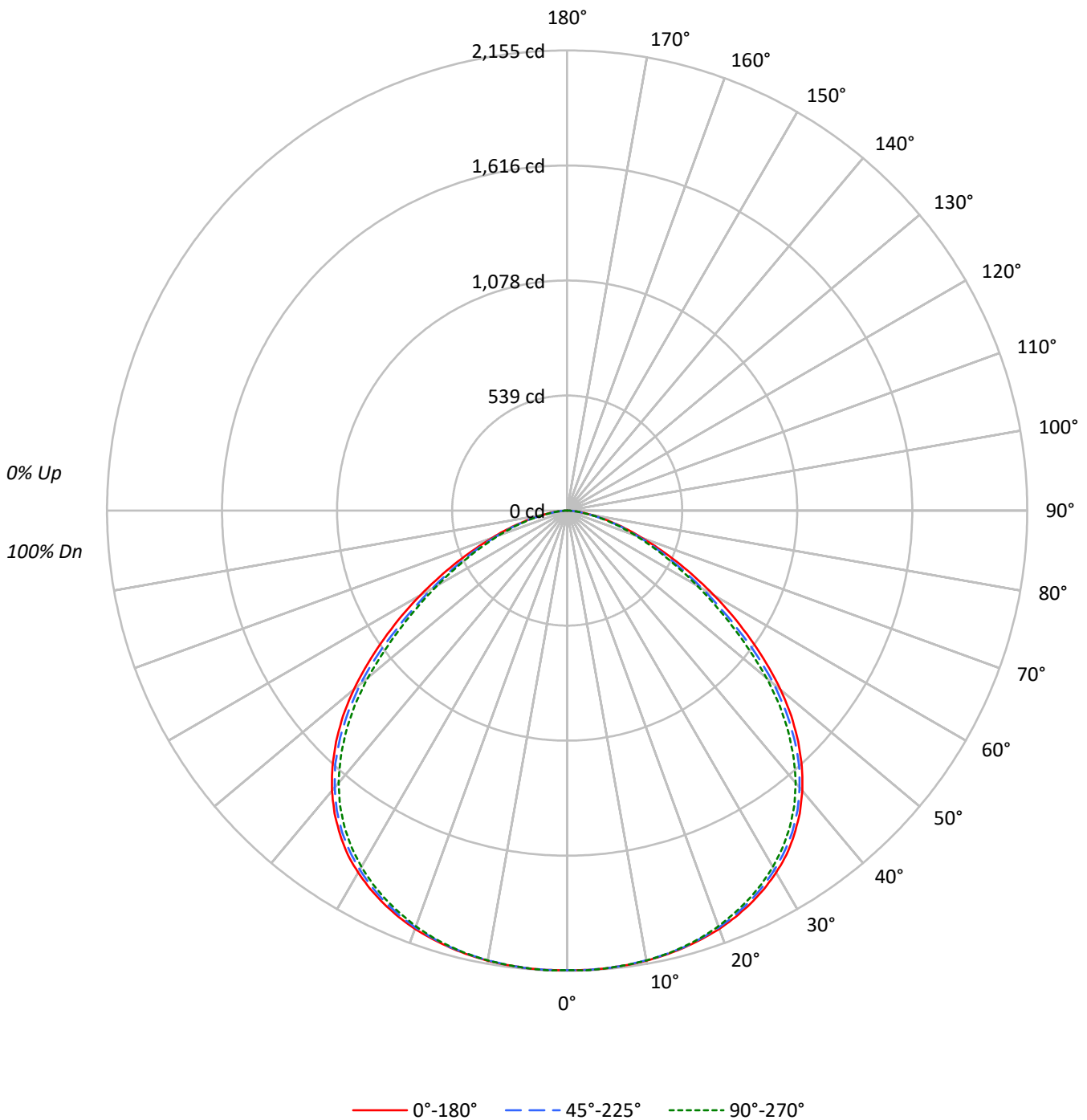
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5727.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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 (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: P412573
CATALOG NUMBER: 24PD-75-PB1-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2896	2896	2896
5°	2905	2905	2905
10°	2925	2922	2923
15°	2951	2947	2945
20°	2985	2975	2966
25°	3016	3000	2984
30°	3042	3017	2994
35°	3045	3019	2981
40°	3010	2975	2925
45°	2912	2859	2785
50°	2731	2646	2549
55°	2454	2308	2213
60°	2137	1966	1891
65°	1798	1663	1591
70°	1465	1391	1335
75°	1174	1133	1085
80°	902	831	809
85°	563	546	546



TEST NUMBER: P412573

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	3.6
10°-20°	598.1	10.4
20°-30°	931.8	16.3
30°-40°	1146.3	20.0
40°-50°	1151.4	20.1
50°-60°	887.4	15.5
60°-70°	526.8	9.2
70°-80°	234.5	4.1
80°-90°	45.8	0.8
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°	1734.8	30.3
0°-40°	2881.1	50.3
0°-60°	4919.9	85.9
0°-90°	5727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2152	2152	2152	2152	2152	
5°	2151	2152	2151	2149	2151	205
15°	2119	2119	2116	2112	2114	599
25°	2031	2031	2021	2012	2010	937
35°	1854	1851	1838	1823	1815	1158
45°	1530	1526	1502	1477	1464	1175
55°	1046	1026	984	954	944	936
65°	565	540	522	503	500	564
75°	226	221	218	210	209	245
85°	36	35	35	34	35	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2152.3	2152.3	2152.3	2152.3	2152.3
2.5°	2153.4	2152.9	2152.9	2150.6	2155.1
5°	2151.1	2151.7	2151.1	2148.9	2151.1
7.5°	2146.6	2147.1	2146.0	2143.7	2146.0
10°	2140.9	2140.9	2138.6	2137.4	2139.2
12.5°	2131.2	2131.2	2128.9	2127.2	2128.9
15°	2118.6	2118.6	2115.8	2112.3	2114.1
17.5°	2103.2	2103.2	2098.7	2094.1	2095.2
20°	2084.4	2083.8	2077.6	2071.3	2071.8
22.5°	2060.4	2059.9	2051.9	2044.5	2042.2
25°	2031.3	2030.8	2021.1	2012.0	2009.7
27.5°	1997.7	1995.4	1984.6	1974.3	1972.0
30°	1957.8	1956.0	1941.8	1931.5	1927.0
32.5°	1911.6	1907.0	1893.9	1881.3	1875.0
35°	1853.9	1851.1	1838.0	1822.6	1815.1
37.5°	1788.9	1786.1	1771.8	1754.7	1746.1
40°	1713.6	1711.3	1693.6	1676.0	1665.1
42.5°	1626.9	1625.2	1606.4	1581.8	1570.4
45°	1530.5	1526.5	1502.5	1477.4	1463.8
47.5°	1423.3	1416.4	1387.3	1363.4	1348.5
50°	1304.6	1295.5	1264.1	1233.3	1217.9
52.5°	1176.3	1160.3	1127.8	1092.4	1077.6
55°	1046.2	1026.2	984.0	954.4	943.5
57.5°	919.0	889.9	850.0	828.9	818.0
60°	794.1	762.1	730.7	710.2	702.8
62.5°	674.8	648.0	621.2	600.7	596.1
65°	564.7	540.2	522.5	502.6	499.7
67.5°	462.1	450.6	434.7	417.6	415.3
70°	372.5	367.9	353.7	343.4	339.4
72.5°	297.2	292.6	282.4	275.0	273.8
75°	225.9	221.3	217.9	210.5	208.8
77.5°	160.9	161.4	158.6	154.6	155.7
80°	116.4	109.5	107.2	105.0	104.4
82.5°	71.3	67.3	65.6	65.0	66.2
85°	36.5	34.8	35.4	33.7	35.4
87.5°	12.5	12.5	13.1	12.5	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)