

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: P412887

Luminaire Tested: **24PD-60-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412887
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-60-PP3-L850
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

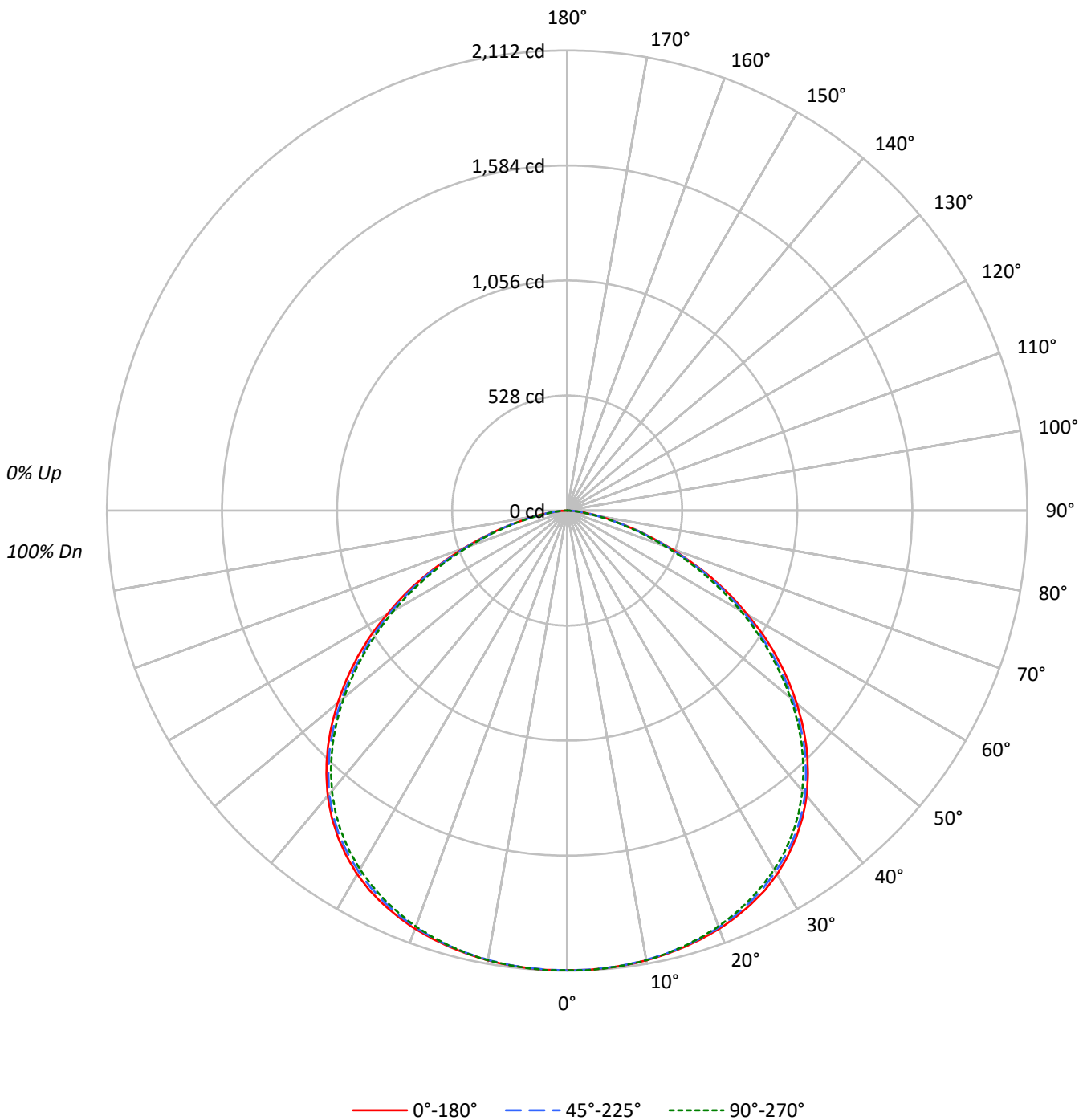
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.0 lumens
Efficiency: N/A
Efficacy: 135.2 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): 45.4
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	2839	2839	2839
5°	2846	2845	2847
10°	2864	2861	2863
15°	2889	2885	2883
20°	2924	2915	2908
25°	2961	2945	2932
30°	2994	2973	2954
35°	3010	2992	2965
40°	3002	2984	2950
45°	2959	2930	2897
50°	2878	2831	2802
55°	2759	2692	2658
60°	2570	2526	2475
65°	2330	2283	2217
70°	1989	1952	1890
75°	1553	1537	1464
80°	1146	1098	1036
85°	692	692	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.3
10°-20°	585.7	9.5
20°-30°	915.5	14.9
30°-40°	1137.8	18.5
40°-50°	1185.5	19.3
50°-60°	1028.7	16.8
60°-70°	707.3	11.5
70°-80°	319.2	5.2
80°-90°	58.5	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°	1702.0	27.7
0°-40°	2839.8	46.3
0°-60°	5053.9	82.3
0°-90°	6139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2107	2108	2107	2105	2108	201
15°	2074	2074	2071	2069	2070	587
25°	1994	1994	1984	1976	1975	920
35°	1832	1832	1822	1811	1805	1145
45°	1555	1556	1540	1528	1523	1197
55°	1176	1169	1148	1134	1133	1048
65°	732	729	717	700	696	722
75°	299	300	296	288	282	325
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°	2109.8	2109.8	2109.8	2109.8	2109.8
2.5°	2110.4	2110.4	2109.2	2107.3	2111.6
5°	2107.3	2108.0	2106.7	2104.9	2108.0
7.5°	2103.0	2103.7	2101.8	2100.0	2102.4
10°	2096.3	2095.7	2093.8	2092.6	2095.7
12.5°	2086.5	2085.9	2084.0	2082.8	2085.3
15°	2074.2	2074.2	2071.1	2069.3	2069.9
17.5°	2059.5	2059.5	2055.2	2050.9	2052.1
20°	2042.3	2041.7	2035.6	2031.3	2030.7
22.5°	2020.8	2020.8	2012.3	2006.7	2004.9
25°	1994.5	1993.8	1984.0	1976.1	1974.8
27.5°	1964.4	1963.2	1951.5	1943.5	1940.5
30°	1927.0	1925.7	1913.5	1904.9	1901.2
32.5°	1882.8	1884.6	1870.5	1860.7	1857.0
35°	1832.5	1832.5	1821.5	1811.0	1804.9
37.5°	1774.8	1774.8	1764.4	1754.0	1746.6
40°	1709.2	1709.8	1698.8	1685.9	1679.7
42.5°	1635.6	1636.8	1622.1	1611.6	1604.9
45°	1555.2	1555.8	1539.9	1528.2	1522.7
47.5°	1468.1	1466.9	1449.1	1439.2	1433.7
50°	1374.8	1372.4	1352.7	1343.5	1338.6
52.5°	1277.3	1272.4	1255.2	1241.7	1237.4
55°	1176.1	1169.3	1147.8	1134.3	1133.1
57.5°	1070.5	1062.6	1044.8	1031.9	1027.0
60°	955.2	953.4	938.6	923.3	919.6
62.5°	847.2	841.7	828.8	810.4	808.6
65°	731.9	728.8	717.2	700.0	696.3
67.5°	612.9	615.9	606.1	590.8	585.9
70°	505.5	507.4	496.3	482.2	480.4
72.5°	397.5	400.6	391.4	382.2	380.4
75°	298.8	300.0	295.7	287.7	281.6
77.5°	212.3	216.6	211.7	206.1	201.2
80°	147.9	141.1	141.7	139.3	133.7
82.5°	89.0	85.9	85.3	82.8	80.4
85°	44.8	44.2	44.8	44.2	41.7
87.5°	14.7	16.0	16.6	16.6	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)