

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: P412545

Luminaire Tested: **24PD-60-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412545
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-60-PB1-L850
Description: 6000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

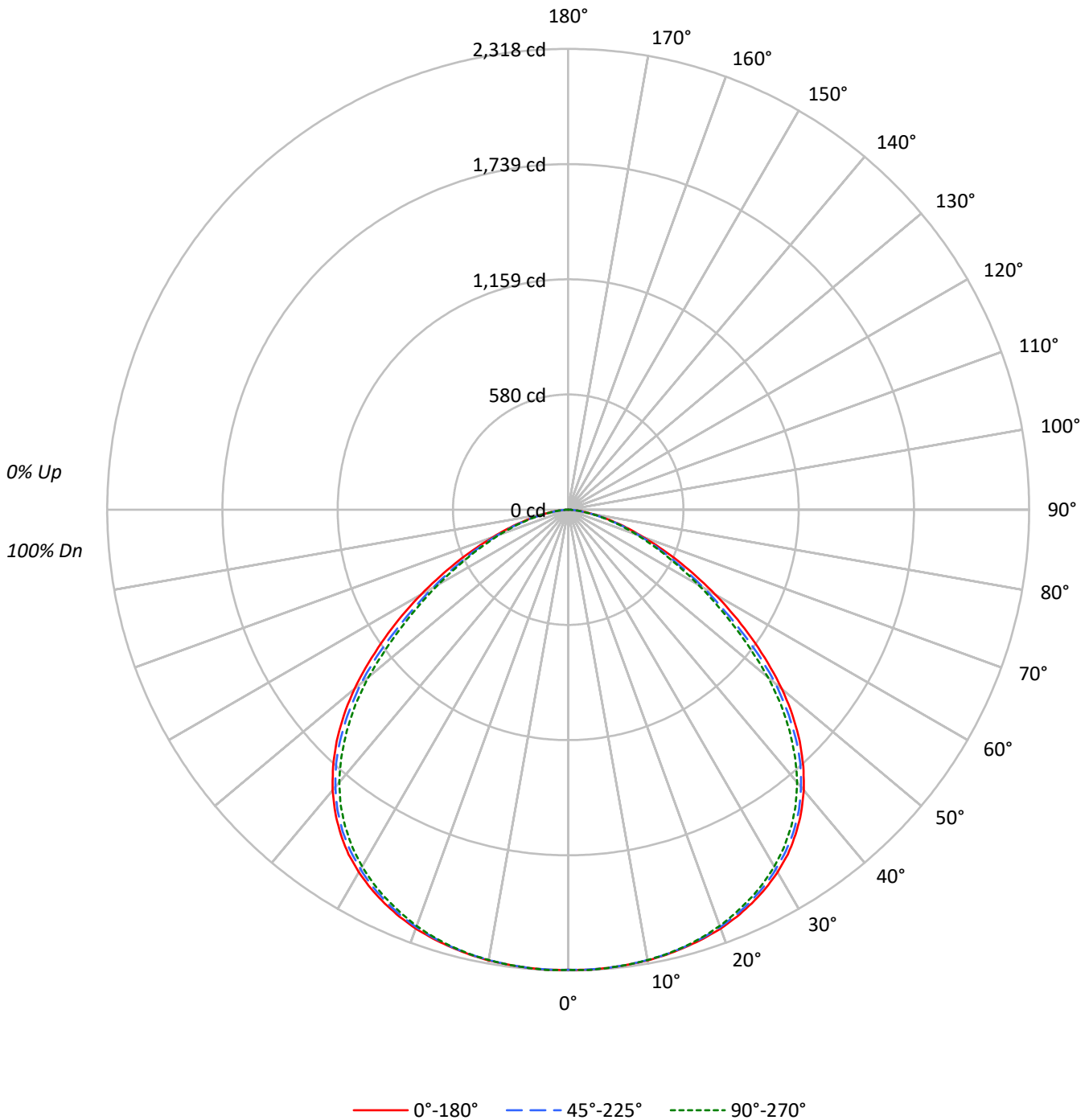
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6159.0 lumens
Efficiency: N/A
Efficacy: 135.7 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): 45.4
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

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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°	3114	3114	3114
5°	3125	3125	3125
10°	3146	3142	3143
15°	3174	3170	3167
20°	3210	3199	3190
25°	3243	3227	3209
30°	3271	3244	3220
35°	3275	3247	3206
40°	3237	3199	3145
45°	3132	3075	2995
50°	2937	2846	2742
55°	2639	2482	2380
60°	2298	2115	2034
65°	1933	1789	1711
70°	1576	1496	1436
75°	1263	1218	1167
80°	969	893	870
85°	607	587	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	3.6
10°-20°	643.2	10.4
20°-30°	1002.1	16.3
30°-40°	1232.7	20.0
40°-50°	1238.2	20.1
50°-60°	954.3	15.5
60°-70°	566.6	9.2
70°-80°	252.2	4.1
80°-90°	49.3	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°	1865.7	30.3
0°-40°	3098.4	50.3
0°-60°	5290.9	85.9
0°-90°	6159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2315	2315	2315	2315	2315	
5°	2313	2314	2313	2311	2313	220
15°	2278	2278	2275	2272	2274	644
25°	2185	2184	2174	2164	2161	1007
35°	1994	1991	1977	1960	1952	1245
45°	1646	1642	1616	1589	1574	1263
55°	1125	1104	1058	1026	1015	1006
65°	607	581	562	540	537	607
75°	243	238	234	226	224	263
85°	39	37	38	36	38	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2315.9	2315.2	2315.2	2312.8	2317.7
5°	2313.4	2314.0	2313.4	2311.0	2313.4
7.5°	2308.5	2309.1	2307.9	2305.4	2307.9
10°	2302.4	2302.4	2299.9	2298.7	2300.5
12.5°	2291.9	2291.9	2289.5	2287.6	2289.5
15°	2278.4	2278.4	2275.4	2271.7	2273.5
17.5°	2261.9	2261.9	2257.0	2252.1	2253.3
20°	2241.6	2241.0	2234.3	2227.5	2228.1
22.5°	2215.9	2215.2	2206.7	2198.7	2196.2
25°	2184.6	2184.0	2173.5	2163.7	2161.3
27.5°	2148.4	2145.9	2134.3	2123.2	2120.8
30°	2105.4	2103.6	2088.3	2077.2	2072.3
32.5°	2055.7	2050.8	2036.7	2023.2	2016.5
35°	1993.8	1990.7	1976.6	1960.0	1952.1
37.5°	1923.8	1920.8	1905.4	1887.0	1877.8
40°	1842.9	1840.4	1821.4	1802.4	1790.7
42.5°	1749.6	1747.8	1727.5	1701.2	1688.9
45°	1645.9	1641.7	1615.9	1588.9	1574.2
47.5°	1530.6	1523.3	1492.0	1466.2	1450.2
50°	1403.0	1393.2	1359.5	1326.3	1309.8
52.5°	1265.0	1247.8	1212.8	1174.8	1158.8
55°	1125.1	1103.6	1058.2	1026.3	1014.7
57.5°	988.3	957.0	914.1	891.4	879.7
60°	854.0	819.6	785.9	763.8	755.8
62.5°	725.7	696.9	668.1	646.0	641.1
65°	607.3	581.0	561.9	540.5	537.4
67.5°	496.9	484.6	467.5	449.1	446.6
70°	400.6	395.7	380.4	369.3	365.0
72.5°	319.6	314.7	303.7	295.7	294.5
75°	242.9	238.0	234.3	226.4	224.5
77.5°	173.0	173.6	170.5	166.3	167.5
80°	125.1	117.8	115.3	112.9	112.3
82.5°	76.7	72.4	70.5	69.9	71.2
85°	39.3	37.4	38.0	36.2	38.0
87.5°	13.5	13.5	14.1	13.5	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)