

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: P412895

Luminaire Tested: **24PD-65-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412895
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-65-PP3-L840
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

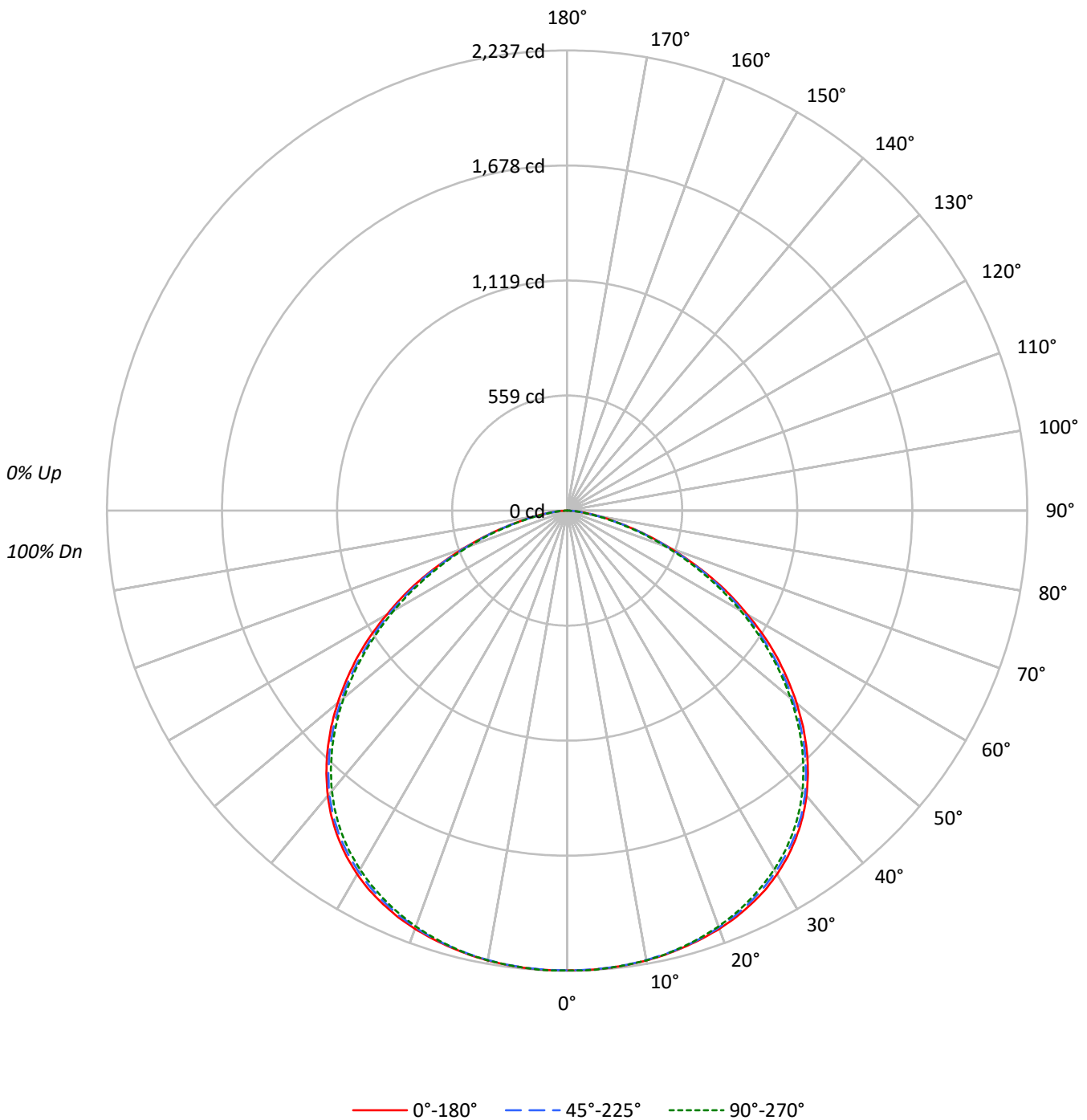
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6503.9 lumens
Efficiency: N/A
Efficacy: 130.9 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): 49.7
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					
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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3007	3007	3007
5°	3015	3015	3016
10°	3034	3031	3033
15°	3061	3057	3055
20°	3098	3088	3080
25°	3137	3121	3106
30°	3172	3150	3129
35°	3189	3170	3141
40°	3181	3161	3126
45°	3135	3104	3070
50°	3049	3000	2969
55°	2923	2853	2816
60°	2723	2676	2622
65°	2469	2419	2349
70°	2107	2068	2002
75°	1645	1629	1551
80°	1213	1163	1098
85°	732	732	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	3.3
10°-20°	620.5	9.5
20°-30°	969.9	14.9
30°-40°	1205.5	18.5
40°-50°	1256.0	19.3
50°-60°	1089.8	16.8
60°-70°	749.4	11.5
70°-80°	338.2	5.2
80°-90°	61.9	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°	1803.1	27.7
0°-40°	3008.6	46.3
0°-60°	5354.4	82.3
0°-90°	6503.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6503.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2233	2233	2232	2230	2233	213
15°	2198	2198	2194	2192	2193	622
25°	2113	2112	2102	2094	2092	975
35°	1942	1942	1930	1919	1912	1213
45°	1648	1648	1631	1619	1613	1268
55°	1246	1239	1216	1202	1200	1110
65°	775	772	760	742	738	765
75°	316	318	313	305	298	345
85°	47	47	47	47	44	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	2235.9	2235.9	2234.6	2232.6	2237.2
5°	2232.6	2233.3	2232.0	2230.0	2233.3
7.5°	2228.1	2228.7	2226.8	2224.8	2227.4
10°	2220.9	2220.3	2218.3	2217.0	2220.3
12.5°	2210.5	2209.9	2207.9	2206.6	2209.2
15°	2197.5	2197.5	2194.3	2192.3	2193.0
17.5°	2181.9	2181.9	2177.4	2172.8	2174.1
20°	2163.7	2163.1	2156.6	2152.0	2151.4
22.5°	2141.0	2141.0	2131.9	2126.0	2124.1
25°	2113.0	2112.4	2102.0	2093.5	2092.2
27.5°	2081.2	2079.9	2067.5	2059.1	2055.8
30°	2041.5	2040.2	2027.2	2018.1	2014.2
32.5°	1994.7	1996.7	1981.7	1971.3	1967.4
35°	1941.5	1941.5	1929.8	1918.7	1912.2
37.5°	1880.4	1880.4	1869.3	1858.3	1850.5
40°	1810.8	1811.5	1799.8	1786.1	1779.6
42.5°	1732.8	1734.1	1718.5	1707.5	1700.3
45°	1647.7	1648.3	1631.4	1619.1	1613.2
47.5°	1555.4	1554.1	1535.2	1524.8	1519.0
50°	1456.6	1454.0	1433.2	1423.4	1418.2
52.5°	1353.2	1348.0	1329.8	1315.5	1311.0
55°	1246.0	1238.8	1216.1	1201.8	1200.5
57.5°	1134.2	1125.7	1106.9	1093.2	1088.0
60°	1012.0	1010.0	994.4	978.2	974.3
62.5°	897.6	891.8	878.1	858.6	856.7
65°	775.4	772.2	759.8	741.6	737.7
67.5°	649.3	652.6	642.2	625.9	620.7
70°	535.6	537.5	525.8	510.9	508.9
72.5°	421.2	424.4	414.7	404.9	403.0
75°	316.5	317.8	313.3	304.8	298.3
77.5°	224.9	229.4	224.2	218.4	213.2
80°	156.6	149.5	150.1	147.5	141.7
82.5°	94.2	91.0	90.3	87.7	85.1
85°	47.4	46.8	47.4	46.8	44.2
87.5°	15.6	16.9	17.5	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)