

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: P413252

Luminaire Tested: **24PD-70-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-70-PC3-L950
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

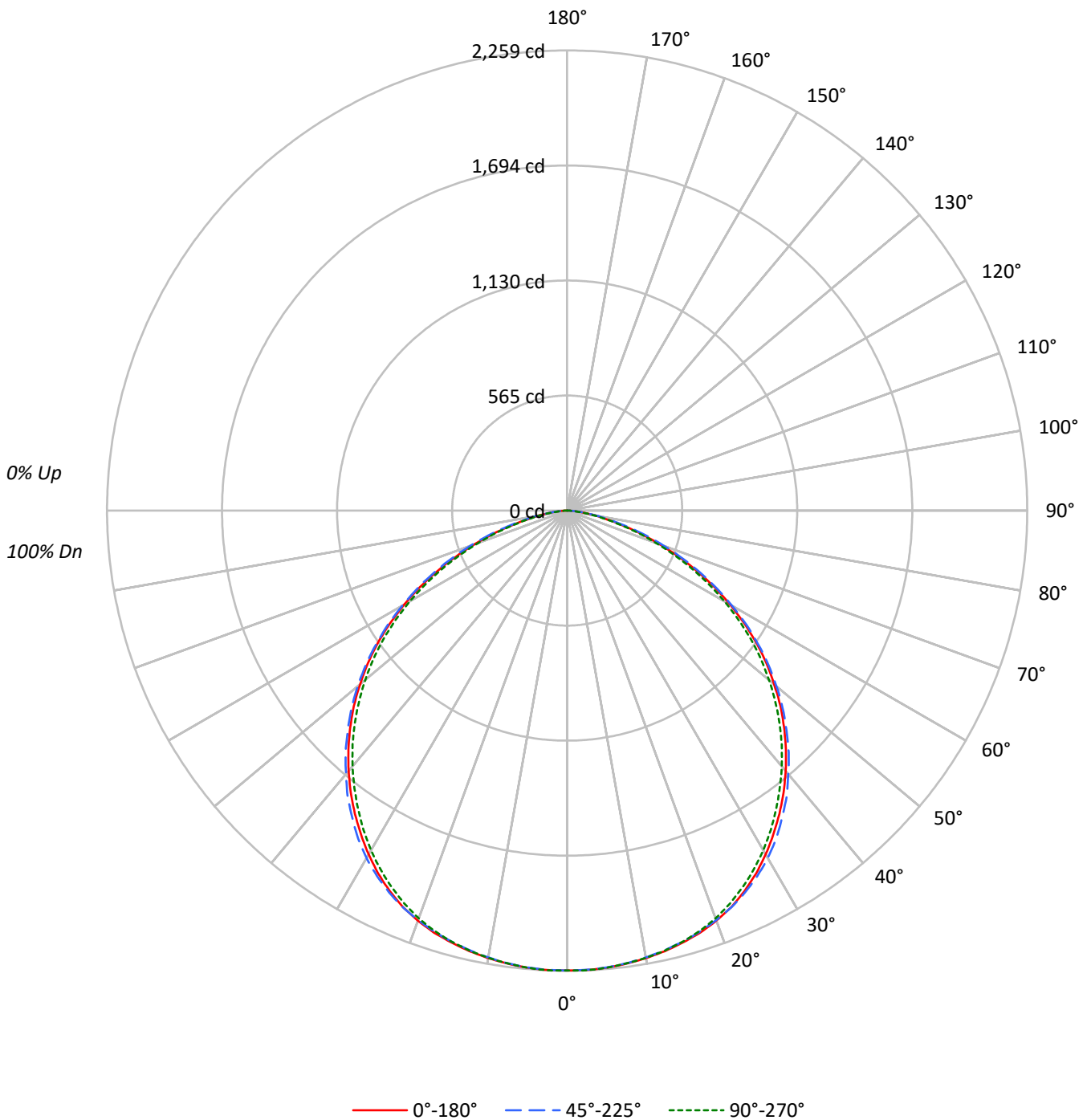
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6171.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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

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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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3038	3038	3038
5°	3042	3040	3043
10°	3048	3043	3046
15°	3058	3052	3053
20°	3068	3063	3050
25°	3059	3070	3028
30°	3029	3061	2991
35°	2984	3022	2939
40°	2932	2967	2879
45°	2865	2896	2806
50°	2777	2808	2708
55°	2663	2686	2583
60°	2486	2514	2400
65°	2240	2296	2152
70°	1902	1985	1825
75°	1473	1580	1405
80°	1095	1144	993
85°	676	724	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.5
10°-20°	619.1	10.0
20°-30°	948.2	15.4
30°-40°	1140.7	18.5
40°-50°	1163.1	18.8
50°-60°	1008.4	16.3
60°-70°	699.1	11.3
70°-80°	319.3	5.2
80°-90°	59.0	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°	1781.5	28.9
0°-40°	2922.1	47.4
0°-60°	5093.6	82.5
0°-90°	6171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2252	2252	2251	2250	2253	214
15°	2195	2194	2191	2189	2191	620
25°	2061	2066	2068	2050	2039	949
35°	1817	1836	1840	1816	1789	1136
45°	1506	1525	1522	1502	1475	1161
55°	1135	1142	1145	1117	1101	1011
65°	704	719	721	697	676	696
75°	283	299	304	294	270	310
85°	44	45	47	44	41	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2257.7	2257.7	2257.7	2257.7	2257.7
2.5°	2257.7	2257.7	2256.4	2255.2	2258.9
5°	2252.0	2252.0	2250.8	2249.5	2252.7
7.5°	2243.3	2242.7	2241.4	2240.2	2242.0
10°	2230.8	2230.1	2227.6	2227.0	2229.5
12.5°	2215.1	2214.5	2210.8	2210.8	2212.6
15°	2195.1	2194.5	2190.7	2188.9	2191.4
17.5°	2172.6	2172.0	2167.6	2162.6	2163.9
20°	2142.6	2142.6	2139.5	2132.0	2130.1
22.5°	2106.3	2108.2	2108.2	2093.8	2088.2
25°	2060.7	2066.3	2068.2	2050.0	2039.4
27.5°	2008.8	2017.5	2022.5	1999.4	1985.6
30°	1949.3	1963.7	1970.0	1945.0	1925.0
32.5°	1884.3	1902.4	1909.9	1885.6	1859.9
35°	1816.8	1836.2	1839.9	1816.1	1789.2
37.5°	1744.8	1764.9	1769.9	1748.6	1715.5
40°	1669.2	1689.2	1689.2	1671.7	1639.2
42.5°	1589.1	1610.4	1609.8	1588.5	1559.1
45°	1505.9	1524.7	1522.2	1501.6	1474.7
47.5°	1420.3	1432.1	1435.3	1410.9	1385.2
50°	1326.5	1338.3	1341.5	1313.9	1293.9
52.5°	1233.9	1241.4	1245.8	1213.9	1199.5
55°	1135.1	1142.0	1145.1	1117.0	1101.3
57.5°	1030.6	1039.4	1043.2	1015.0	997.5
60°	923.7	933.1	934.3	908.1	891.8
62.5°	814.9	827.4	829.9	803.6	784.2
65°	703.6	718.6	721.1	696.7	676.0
67.5°	592.2	612.3	612.9	592.9	568.5
70°	483.4	505.3	504.7	487.8	464.0
72.5°	379.6	399.6	404.0	388.4	365.2
75°	283.3	298.9	303.9	293.9	270.2
77.5°	201.4	215.8	220.1	210.8	193.2
80°	141.3	142.0	147.6	140.1	128.2
82.5°	87.6	86.3	88.2	85.1	78.2
85°	43.8	45.0	46.9	44.4	40.7
87.5°	15.0	15.6	16.9	16.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)