

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: P412820

Luminaire Tested: **22PD-85-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PP3-L950
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

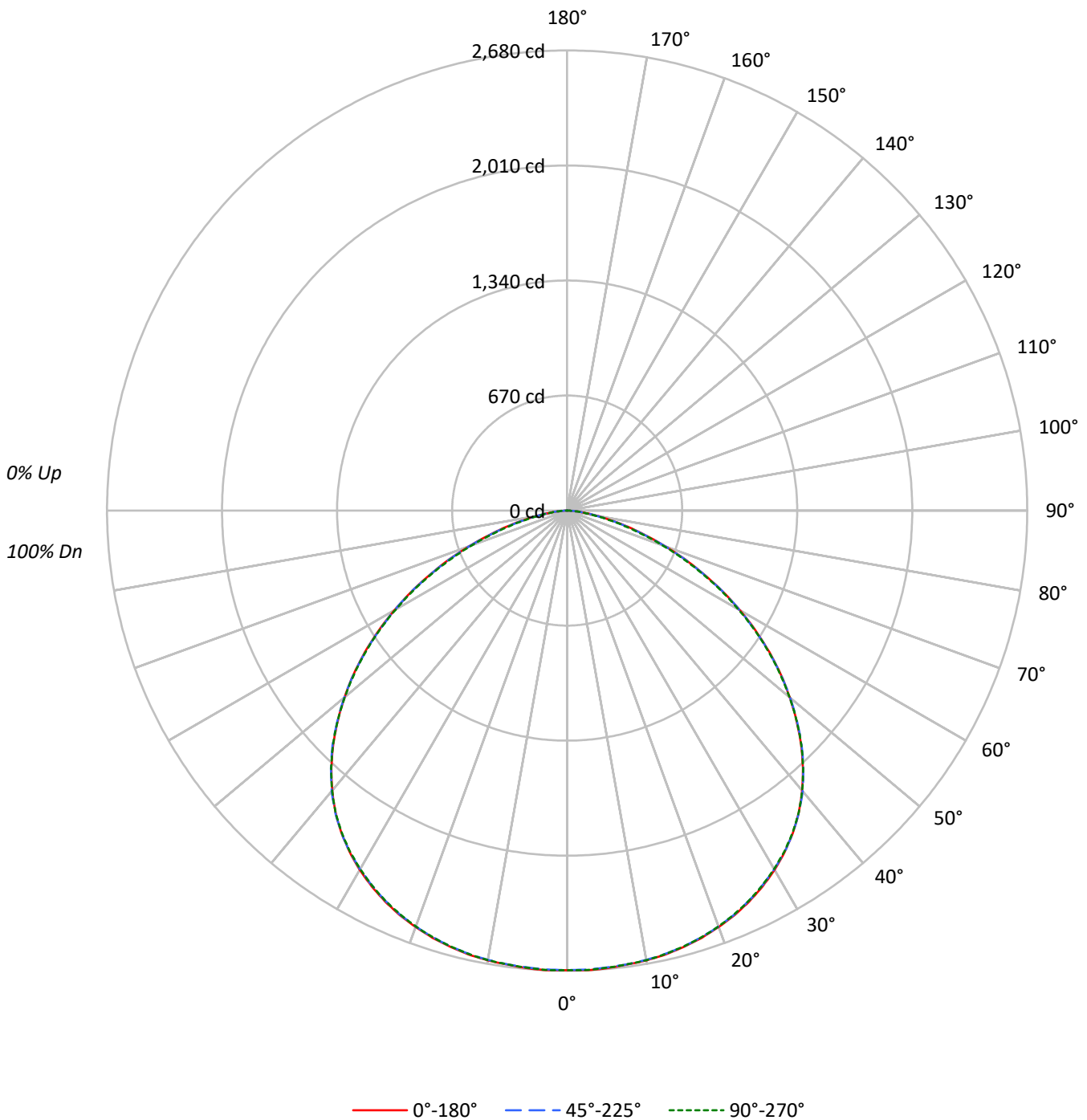
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	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	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
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°	7202	7202	7202
5°	7225	7215	7220
10°	7270	7260	7265
15°	7327	7319	7319
20°	7391	7383	7381
25°	7456	7443	7443
30°	7508	7495	7492
35°	7530	7530	7521
40°	7481	7496	7481
45°	7332	7353	7343
50°	7086	7097	7078
55°	6746	6729	6716
60°	6262	6247	6199
65°	5594	5588	5525
70°	4781	4753	4648
75°	3810	3698	3586
80°	2715	2659	2520
85°	1766	1766	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	3.3
10°-20°	742.4	9.7
20°-30°	1156.1	15.1
30°-40°	1430.8	18.6
40°-50°	1483.7	19.3
50°-60°	1278.8	16.7
60°-70°	869.4	11.3
70°-80°	389.1	5.1
80°-90°	74.1	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°	2153.1	28.0
0°-40°	3583.9	46.7
0°-60°	6346.4	82.6
0°-90°	7679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2675	2669	2671	2670	2673	255
15°	2630	2626	2627	2626	2627	743
25°	2511	2508	2507	2506	2507	1158
35°	2292	2290	2292	2289	2290	1432
45°	1927	1925	1932	1928	1929	1483
55°	1438	1432	1434	1432	1432	1282
65°	878	886	878	875	868	872
75°	366	367	356	354	345	394
85°	57	59	57	55	55	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2676.5	2676.5	2676.5	2676.5	2676.5
2.5°	2680.0	2674.7	2674.7	2675.6	2678.3
5°	2674.7	2669.3	2671.1	2670.2	2672.9
7.5°	2667.5	2663.1	2665.8	2664.0	2665.8
10°	2660.4	2655.9	2656.8	2655.9	2658.6
12.5°	2647.9	2642.5	2644.3	2644.3	2645.2
15°	2630.0	2625.5	2627.3	2625.5	2627.3
17.5°	2608.6	2603.2	2604.1	2603.2	2605.0
20°	2580.9	2577.3	2578.2	2576.4	2577.3
22.5°	2549.6	2545.1	2546.0	2544.2	2544.2
25°	2511.1	2507.6	2506.7	2505.8	2506.7
27.5°	2466.5	2462.0	2462.0	2461.1	2461.1
30°	2416.4	2412.0	2412.0	2411.1	2411.1
32.5°	2357.4	2355.7	2356.5	2354.8	2353.9
35°	2292.2	2289.5	2292.2	2288.6	2289.5
37.5°	2216.2	2212.7	2218.0	2214.5	2215.4
40°	2129.6	2127.8	2134.0	2131.3	2129.6
42.5°	2033.0	2033.0	2035.7	2036.6	2034.8
45°	1926.7	1924.9	1932.1	1927.6	1929.4
47.5°	1812.3	1809.6	1815.0	1814.1	1813.2
50°	1692.6	1690.8	1695.2	1690.8	1690.8
52.5°	1568.4	1567.5	1568.4	1563.9	1563.0
55°	1437.9	1432.5	1434.3	1431.6	1431.6
57.5°	1302.0	1295.8	1296.7	1295.8	1296.7
60°	1163.5	1161.7	1160.8	1156.4	1151.9
62.5°	1021.4	1023.2	1022.3	1016.1	1011.6
65°	878.5	885.6	877.6	874.9	867.7
67.5°	743.5	746.2	740.8	734.6	726.5
70°	607.7	613.0	604.1	597.9	590.7
72.5°	478.1	481.7	473.6	470.1	461.1
75°	366.4	367.3	355.7	353.9	344.9
77.5°	260.9	264.5	255.6	255.6	246.6
80°	175.2	181.4	171.6	168.9	162.6
82.5°	109.9	110.8	108.1	105.5	102.8
85°	57.2	59.0	57.2	55.4	55.4
87.5°	21.4	22.3	21.4	20.6	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)