

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: P413160

Luminaire Tested: **22PD-85-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-85-PC3-L935
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

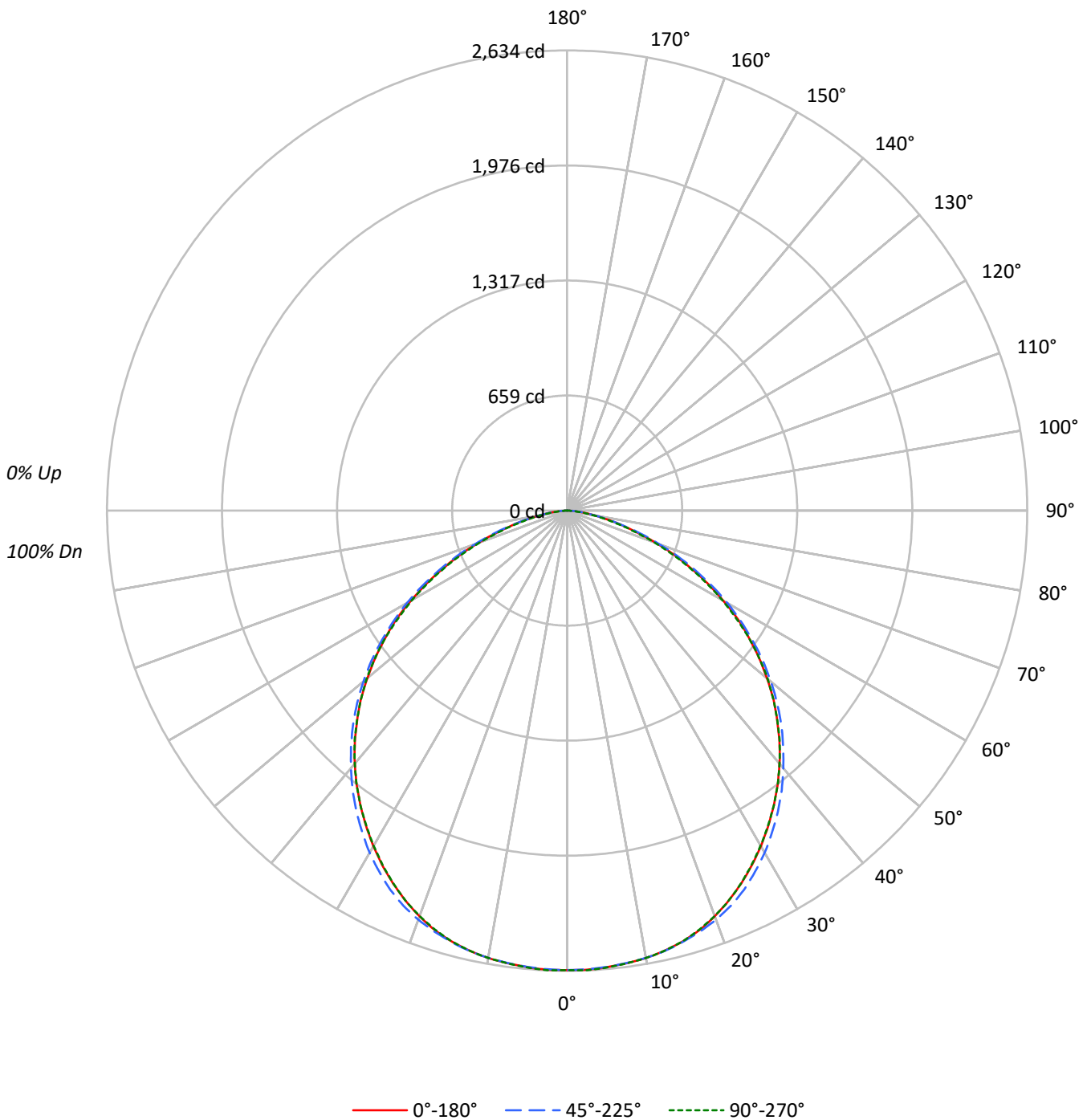
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7067.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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 (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	110	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	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7079	7079	7079
5°	7088	7083	7092
10°	7106	7104	7106
15°	7114	7124	7112
20°	7078	7135	7073
25°	6996	7110	6991
30°	6892	7027	6882
35°	6773	6907	6773
40°	6646	6763	6646
45°	6470	6598	6480
50°	6249	6372	6273
55°	5959	6077	5959
60°	5557	5696	5521
65°	4987	5163	4923
70°	4266	4417	4141
75°	3384	3480	3210
80°	2425	2515	2307
85°	1602	1652	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	3.5
10°-20°	720.9	10.2
20°-30°	1093.8	15.5
30°-40°	1306.2	18.5
40°-50°	1328.4	18.8
50°-60°	1149.1	16.3
60°-70°	790.7	11.2
70°-80°	358.8	5.1
80°-90°	69.5	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°	2064.3	29.2
0°-40°	3370.5	47.7
0°-60°	5848.0	82.8
0°-90°	7067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2624	2621	2622	2622	2626	250
15°	2554	2555	2557	2553	2553	720
25°	2356	2377	2395	2373	2354	1085
35°	2062	2098	2103	2095	2062	1290
45°	1700	1731	1734	1732	1703	1311
55°	1270	1292	1295	1293	1270	1135
65°	783	805	811	804	773	777
75°	326	338	335	331	309	350
85°	52	55	54	52	48	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2630.6	2627.3	2628.1	2628.9	2634.0
5°	2623.9	2621.4	2622.2	2622.2	2625.6
7.5°	2613.0	2612.2	2612.2	2611.4	2613.9
10°	2600.5	2598.8	2599.7	2598.8	2600.5
12.5°	2581.2	2581.2	2582.1	2579.6	2581.2
15°	2553.6	2555.3	2557.0	2552.8	2552.8
17.5°	2518.5	2522.7	2526.9	2519.3	2515.1
20°	2471.6	2481.7	2491.7	2480.0	2470.0
22.5°	2417.2	2434.0	2449.0	2430.6	2417.2
25°	2356.2	2377.1	2394.7	2372.9	2354.5
27.5°	2290.1	2313.5	2330.2	2311.8	2286.7
30°	2218.1	2246.6	2261.6	2244.1	2214.8
32.5°	2141.1	2174.6	2183.8	2172.9	2139.5
35°	2061.6	2098.5	2102.6	2095.1	2061.6
37.5°	1978.8	2014.0	2017.3	2013.1	1978.8
40°	1891.8	1924.4	1925.3	1925.3	1891.8
42.5°	1798.9	1830.7	1830.7	1829.9	1801.4
45°	1700.2	1731.1	1733.7	1732.0	1702.7
47.5°	1602.3	1625.7	1629.9	1626.6	1600.6
50°	1492.7	1517.0	1522.0	1518.6	1498.5
52.5°	1383.9	1406.5	1411.5	1409.0	1386.4
55°	1270.1	1291.9	1295.2	1292.7	1270.1
57.5°	1160.5	1174.7	1178.1	1173.1	1144.6
60°	1032.5	1052.6	1058.4	1052.6	1025.8
62.5°	908.7	930.4	935.4	927.1	898.6
65°	783.2	804.9	810.8	804.1	773.1
67.5°	664.3	680.2	685.3	677.7	649.3
70°	542.2	562.3	561.4	551.4	526.3
72.5°	421.7	449.3	444.3	438.4	410.8
75°	325.5	338.0	334.7	331.3	308.7
77.5°	232.6	247.7	239.3	240.1	220.9
80°	156.5	170.7	162.3	159.0	148.9
82.5°	99.6	105.4	103.8	102.1	92.9
85°	51.9	55.2	53.5	51.9	48.5
87.5°	20.1	21.8	20.1	20.1	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)