

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: P413154

Luminaire Tested: **22PD-85-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413154
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-L830
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

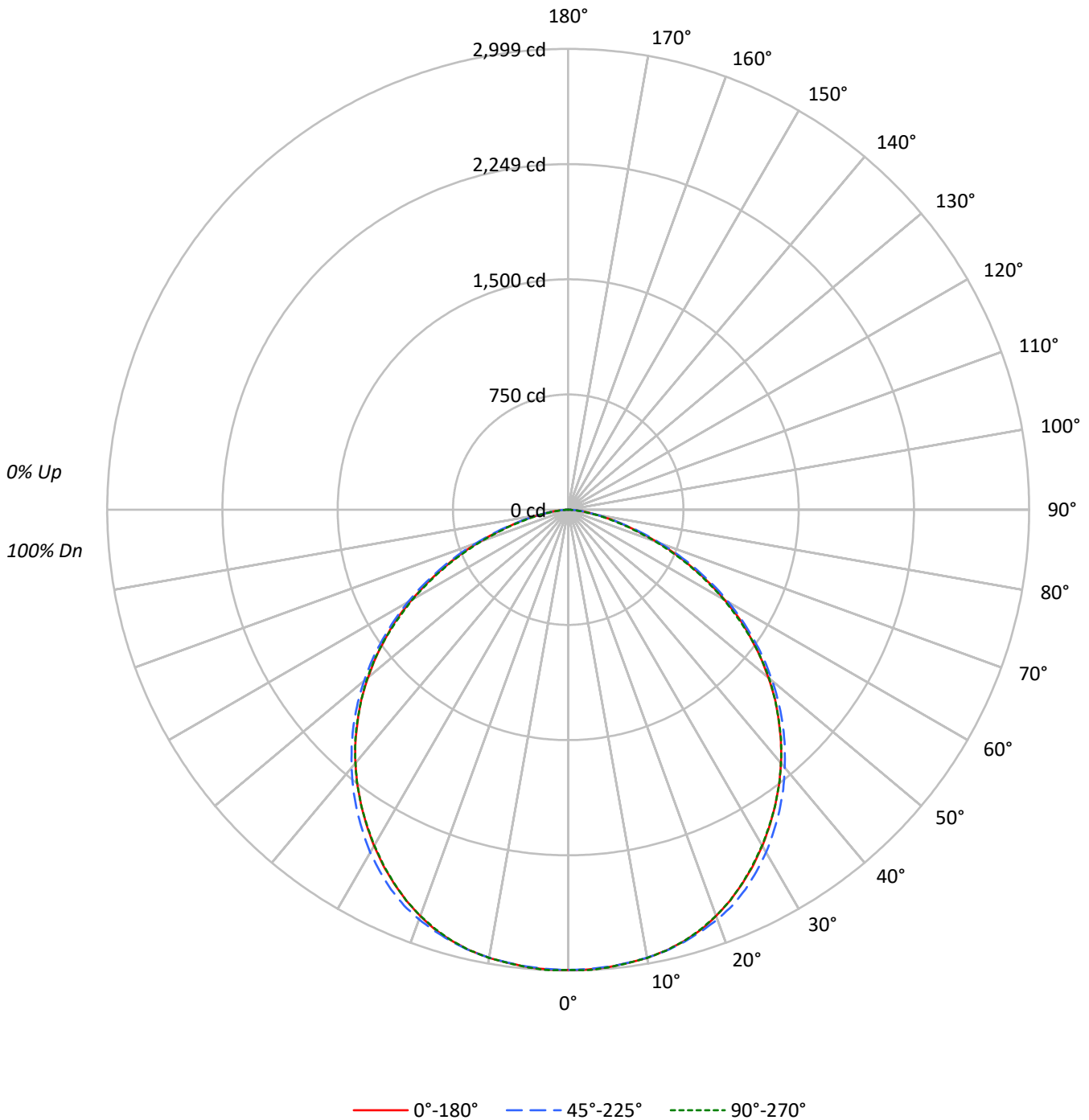
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.0 lumens
Efficiency: N/A
Efficacy: 104.1 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°	8061	8061	8061
5°	8071	8066	8076
10°	8091	8089	8091
15°	8101	8111	8098
20°	8060	8125	8054
25°	7966	8096	7960
30°	7848	8002	7836
35°	7712	7865	7712
40°	7567	7701	7567
45°	7368	7513	7378
50°	7116	7255	7144
55°	6785	6919	6785
60°	6328	6486	6287
65°	5678	5878	5605
70°	4858	5030	4715
75°	3853	3962	3656
80°	2762	2864	2628
85°	1825	1883	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	3.5
10°-20°	820.9	10.2
20°-30°	1245.4	15.5
30°-40°	1487.4	18.5
40°-50°	1512.6	18.8
50°-60°	1308.4	16.3
60°-70°	900.3	11.2
70°-80°	408.6	5.1
80°-90°	79.1	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°	2350.6	29.2
0°-40°	3837.9	47.7
0°-60°	6659.0	82.8
0°-90°	8047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	2988	2985	2986	2986	2990	284
15°	2908	2910	2912	2907	2907	820
25°	2683	2707	2727	2702	2681	1236
35°	2348	2390	2394	2386	2348	1468
45°	1936	1971	1974	1972	1939	1493
55°	1446	1471	1475	1472	1446	1292
65°	892	916	923	916	880	885
75°	371	385	381	377	352	399
85°	59	63	61	59	55	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2995.4	2995.4	2995.4	2995.4	2995.4
2.5°	2995.4	2991.6	2992.5	2993.5	2999.2
5°	2987.8	2984.9	2985.9	2985.9	2989.7
7.5°	2975.4	2974.4	2974.4	2973.5	2976.3
10°	2961.1	2959.2	2960.2	2959.2	2961.1
12.5°	2939.2	2939.2	2940.1	2937.3	2939.2
15°	2907.8	2909.7	2911.6	2906.8	2906.8
17.5°	2867.7	2872.5	2877.3	2868.7	2863.9
20°	2814.4	2825.8	2837.2	2823.9	2812.5
22.5°	2752.5	2771.5	2788.7	2767.7	2752.5
25°	2682.9	2706.7	2726.7	2702.0	2681.0
27.5°	2607.6	2634.3	2653.4	2632.4	2603.8
30°	2525.7	2558.1	2575.2	2555.2	2521.9
32.5°	2438.1	2476.2	2486.6	2474.3	2436.1
35°	2347.5	2389.5	2394.2	2385.7	2347.5
37.5°	2253.2	2293.2	2297.0	2292.3	2253.2
40°	2154.1	2191.3	2192.2	2192.2	2154.1
42.5°	2048.4	2084.6	2084.6	2083.6	2051.2
45°	1936.0	1971.2	1974.1	1972.2	1938.8
47.5°	1824.5	1851.2	1855.9	1852.1	1822.6
50°	1699.7	1727.3	1733.0	1729.2	1706.4
52.5°	1575.8	1601.5	1607.3	1604.4	1578.7
55°	1446.3	1471.0	1474.8	1472.0	1446.3
57.5°	1321.4	1337.6	1341.5	1335.7	1303.3
60°	1175.7	1198.5	1205.2	1198.5	1168.1
62.5°	1034.7	1059.4	1065.2	1055.6	1023.2
65°	891.8	916.5	923.2	915.6	880.3
67.5°	756.5	774.6	780.3	771.7	739.3
70°	617.4	640.2	639.3	627.9	599.3
72.5°	480.2	511.6	505.9	499.2	467.8
75°	370.6	384.9	381.1	377.3	351.6
77.5°	264.9	282.0	272.5	273.4	251.5
80°	178.2	194.4	184.8	181.0	169.6
82.5°	113.4	120.0	118.1	116.2	105.8
85°	59.1	62.9	61.0	59.1	55.3
87.5°	22.9	24.8	22.9	22.9	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)