

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: P413155

Luminaire Tested: **22PD-85-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413155
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-L835
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

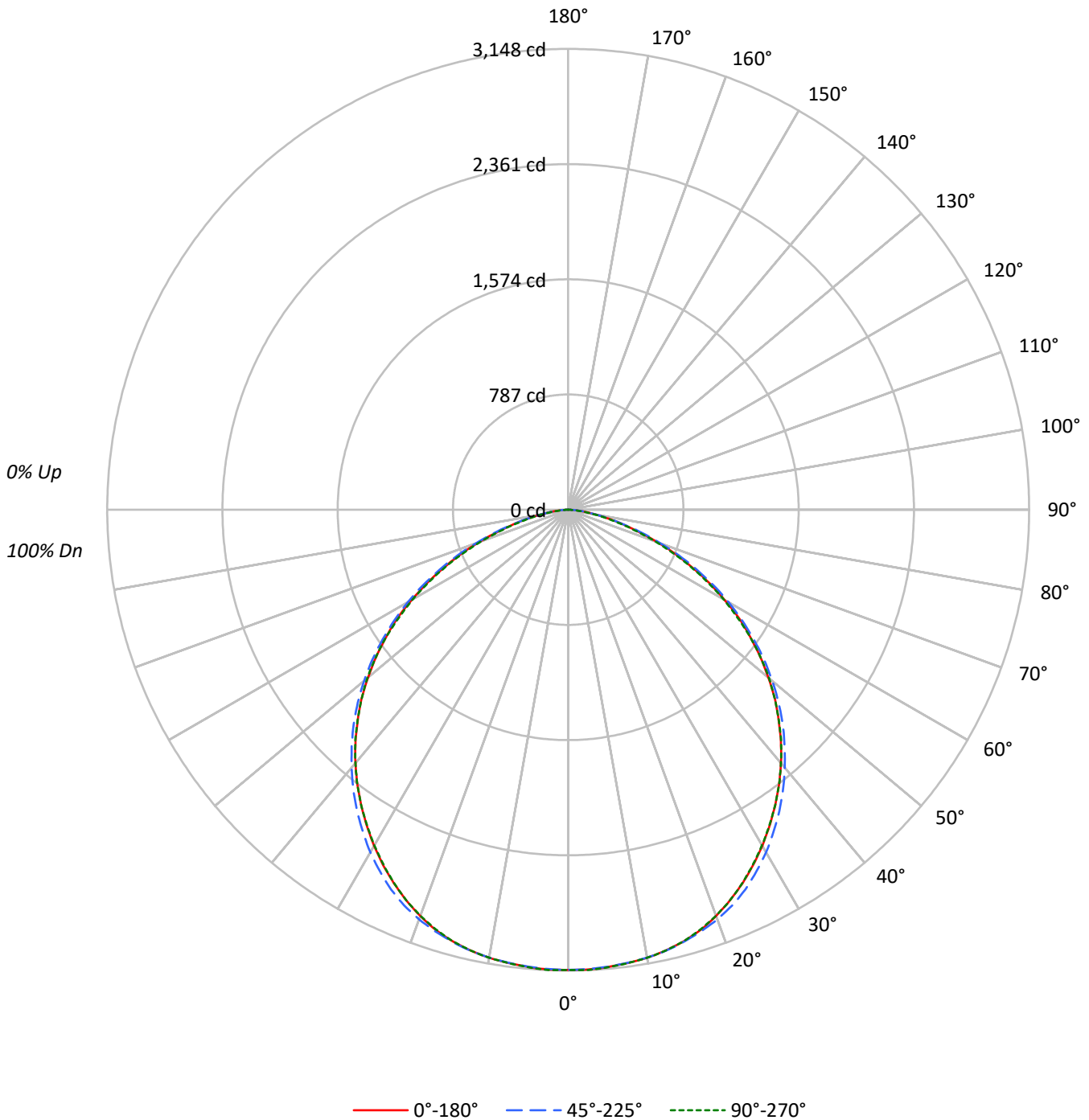
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8446.0 lumens
Efficiency: N/A
Efficacy: 109.3 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°	8460	8460	8460
5°	8471	8465	8476
10°	8492	8490	8492
15°	8502	8513	8500
20°	8459	8528	8453
25°	8361	8497	8355
30°	8237	8399	8225
35°	8094	8255	8094
40°	7942	8083	7942
45°	7733	7885	7744
50°	7469	7615	7498
55°	7122	7263	7122
60°	6641	6808	6598
65°	5960	6170	5883
70°	5098	5279	4949
75°	4044	4159	3837
80°	2898	3006	2758
85°	1914	1976	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	3.5
10°-20°	861.6	10.2
20°-30°	1307.2	15.5
30°-40°	1561.1	18.5
40°-50°	1587.7	18.8
50°-60°	1373.3	16.3
60°-70°	945.0	11.2
70°-80°	428.9	5.1
80°-90°	83.0	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°	2467.1	29.2
0°-40°	4028.2	47.7
0°-60°	6989.1	82.8
0°-90°	8446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3144	3144	3144	3144	3144	
5°	3136	3133	3134	3134	3138	298
15°	3052	3054	3056	3051	3051	861
25°	2816	2841	2862	2836	2814	1297
35°	2464	2508	2513	2504	2464	1541
45°	2032	2069	2072	2070	2035	1567
55°	1518	1544	1548	1545	1518	1356
65°	936	962	969	961	924	929
75°	389	404	400	396	369	418
85°	62	66	64	62	58	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3143.9	3143.9	3143.9	3143.9	3143.9
2.5°	3143.9	3139.9	3140.9	3141.9	3147.9
5°	3135.9	3132.9	3133.9	3133.9	3137.9
7.5°	3122.9	3121.9	3121.9	3120.9	3123.9
10°	3107.9	3105.9	3106.9	3105.9	3107.9
12.5°	3084.9	3084.9	3085.9	3082.9	3084.9
15°	3051.9	3053.9	3055.9	3050.9	3050.9
17.5°	3009.9	3014.9	3019.9	3010.9	3005.9
20°	2953.9	2965.9	2977.9	2963.9	2951.9
22.5°	2888.9	2908.9	2926.9	2904.9	2888.9
25°	2815.9	2840.9	2861.9	2835.9	2813.9
27.5°	2736.9	2764.9	2784.9	2762.9	2732.9
30°	2650.9	2684.9	2702.9	2681.9	2646.9
32.5°	2558.9	2598.9	2609.9	2596.9	2556.9
35°	2463.9	2507.9	2512.9	2503.9	2463.9
37.5°	2364.9	2406.9	2410.9	2405.9	2364.9
40°	2260.9	2299.9	2300.9	2300.9	2260.9
42.5°	2149.9	2187.9	2187.9	2186.9	2152.9
45°	2032.0	2069.0	2072.0	2070.0	2035.0
47.5°	1915.0	1943.0	1948.0	1944.0	1913.0
50°	1784.0	1813.0	1819.0	1815.0	1791.0
52.5°	1654.0	1681.0	1687.0	1684.0	1657.0
55°	1518.0	1544.0	1548.0	1545.0	1518.0
57.5°	1387.0	1404.0	1408.0	1402.0	1368.0
60°	1234.0	1258.0	1265.0	1258.0	1226.0
62.5°	1086.0	1112.0	1118.0	1108.0	1074.0
65°	936.0	962.0	969.0	961.0	924.0
67.5°	794.0	813.0	819.0	810.0	776.0
70°	648.0	672.0	671.0	659.0	629.0
72.5°	504.0	537.0	531.0	524.0	491.0
75°	389.0	404.0	400.0	396.0	369.0
77.5°	278.0	296.0	286.0	287.0	264.0
80°	187.0	204.0	194.0	190.0	178.0
82.5°	119.0	126.0	124.0	122.0	111.0
85°	62.0	66.0	64.0	62.0	58.0
87.5°	24.0	26.0	24.0	24.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)