

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: P412462

Luminaire Tested: **22PD-80-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PB1-L835
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

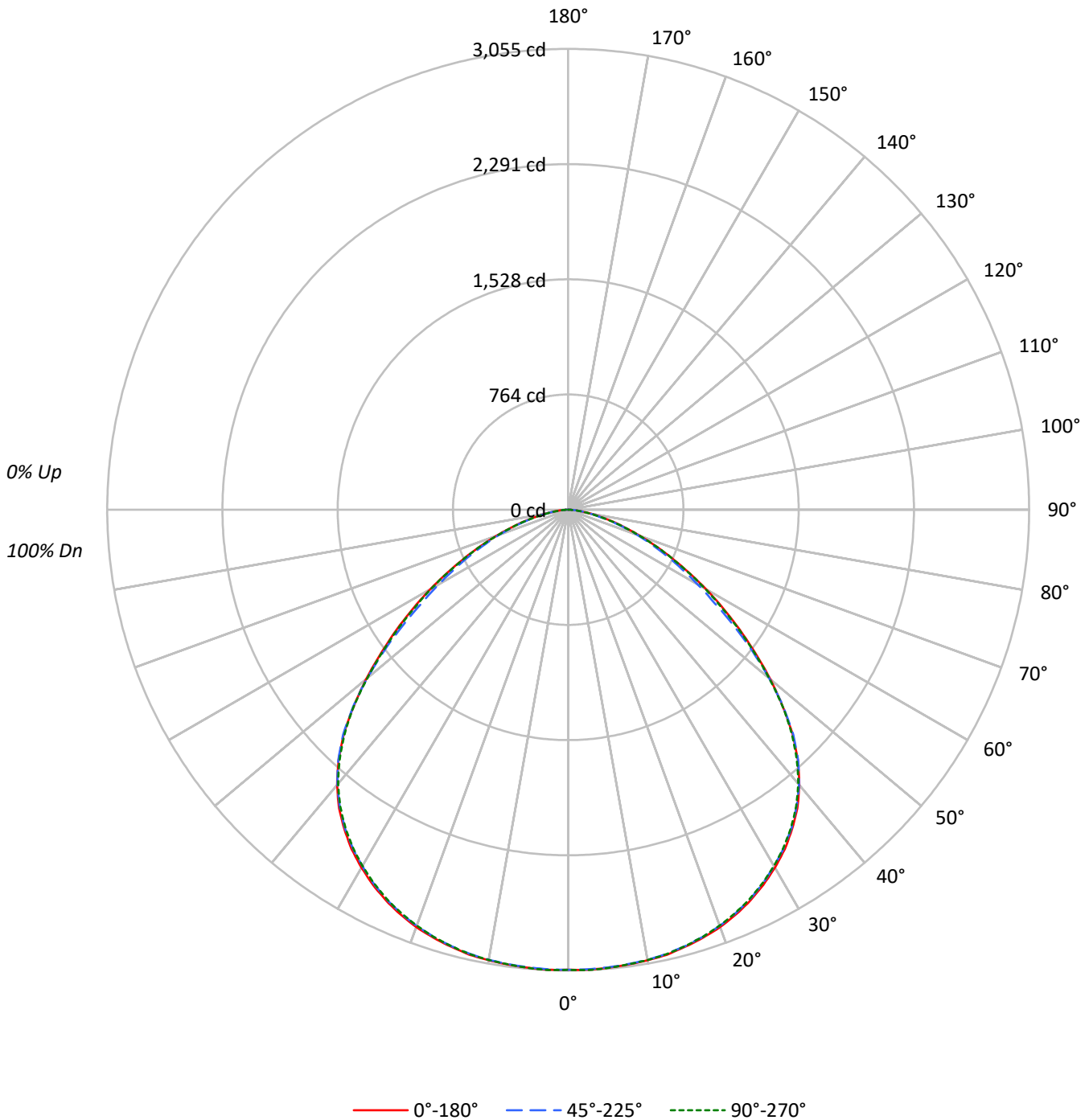
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8008.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73																												
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63																												
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																												
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																												
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																												
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																												
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33																												
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																												
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8208	8208	8208
5°	8235	8227	8237
10°	8288	8278	8283
15°	8356	8343	8343
20°	8432	8408	8403
25°	8485	8460	8452
30°	8514	8479	8473
35°	8496	8471	8455
40°	8369	8359	8333
45°	8001	8026	7965
50°	7325	7285	7277
55°	6509	6279	6465
60°	5675	5330	5640
65°	4811	4552	4786
70°	3977	3814	3940
75°	3217	3011	3089
80°	2325	2250	2236
85°	1513	1513	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	3.6
10°-20°	846.5	10.6
20°-30°	1313.5	16.4
30°-40°	1610.7	20.1
40°-50°	1610.1	20.1
50°-60°	1219.6	15.2
60°-70°	731.5	9.1
70°-80°	322.1	4.0
80°-90°	63.9	0.8
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°	2450.1	30.6
0°-40°	4060.8	50.7
0°-60°	6890.5	86.0
0°-90°	8008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	3048	3045	3046	3045	3049	290
15°	2999	2996	2995	2993	2995	848
25°	2858	2852	2849	2845	2846	1317
35°	2586	2585	2579	2577	2574	1615
45°	2102	2105	2109	2103	2093	1609
55°	1387	1357	1338	1356	1378	1244
65°	756	729	715	727	752	756
75°	309	303	290	294	297	330
85°	49	51	49	47	47	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3050.2	3050.2	3050.2	3050.2	3050.2
2.5°	3053.1	3048.4	3049.3	3049.3	3055.0
5°	3048.4	3044.6	3045.5	3044.6	3049.3
7.5°	3041.8	3038.0	3038.9	3038.0	3040.8
10°	3033.3	3029.5	3029.5	3027.6	3031.4
12.5°	3021.9	3017.2	3015.3	3014.4	3017.2
15°	2999.3	2996.5	2994.6	2992.7	2994.6
17.5°	2974.8	2970.1	2968.2	2964.4	2968.2
20°	2944.6	2938.0	2936.1	2933.3	2934.2
22.5°	2905.0	2899.3	2896.5	2891.8	2893.7
25°	2857.8	2852.2	2849.3	2844.6	2846.5
27.5°	2803.1	2799.4	2792.8	2789.0	2789.9
30°	2739.9	2736.2	2728.6	2726.7	2726.7
32.5°	2670.1	2665.4	2658.8	2656.9	2656.0
35°	2586.2	2585.3	2578.6	2576.8	2573.9
37.5°	2494.7	2492.8	2485.3	2483.4	2480.6
40°	2382.5	2380.6	2379.6	2375.9	2372.1
42.5°	2252.3	2255.1	2257.0	2249.5	2241.9
45°	2102.3	2105.2	2108.9	2103.3	2092.9
47.5°	1926.9	1938.2	1932.6	1936.3	1926.0
50°	1749.6	1749.6	1740.2	1743.9	1738.3
52.5°	1563.8	1548.7	1537.4	1544.9	1552.5
55°	1387.4	1357.2	1338.4	1356.3	1378.0
57.5°	1218.6	1182.7	1147.8	1176.1	1202.6
60°	1054.5	1013.0	990.3	1011.1	1047.9
62.5°	898.8	868.7	846.0	862.1	893.2
65°	755.5	729.1	714.9	727.2	751.7
67.5°	624.4	606.5	592.3	602.7	621.6
70°	505.5	500.8	484.8	489.5	500.8
72.5°	397.1	396.1	382.0	385.8	392.4
75°	309.4	302.8	289.6	294.3	297.1
77.5°	218.8	221.6	209.4	212.2	212.2
80°	150.0	154.7	145.2	143.4	144.3
82.5°	95.3	95.3	94.3	93.4	90.5
85°	49.0	50.9	49.0	47.2	47.2
87.5°	18.9	18.9	18.9	17.9	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)