

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: P412470

Luminaire Tested: **22PD-85-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412470
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-85-PB1-L830
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

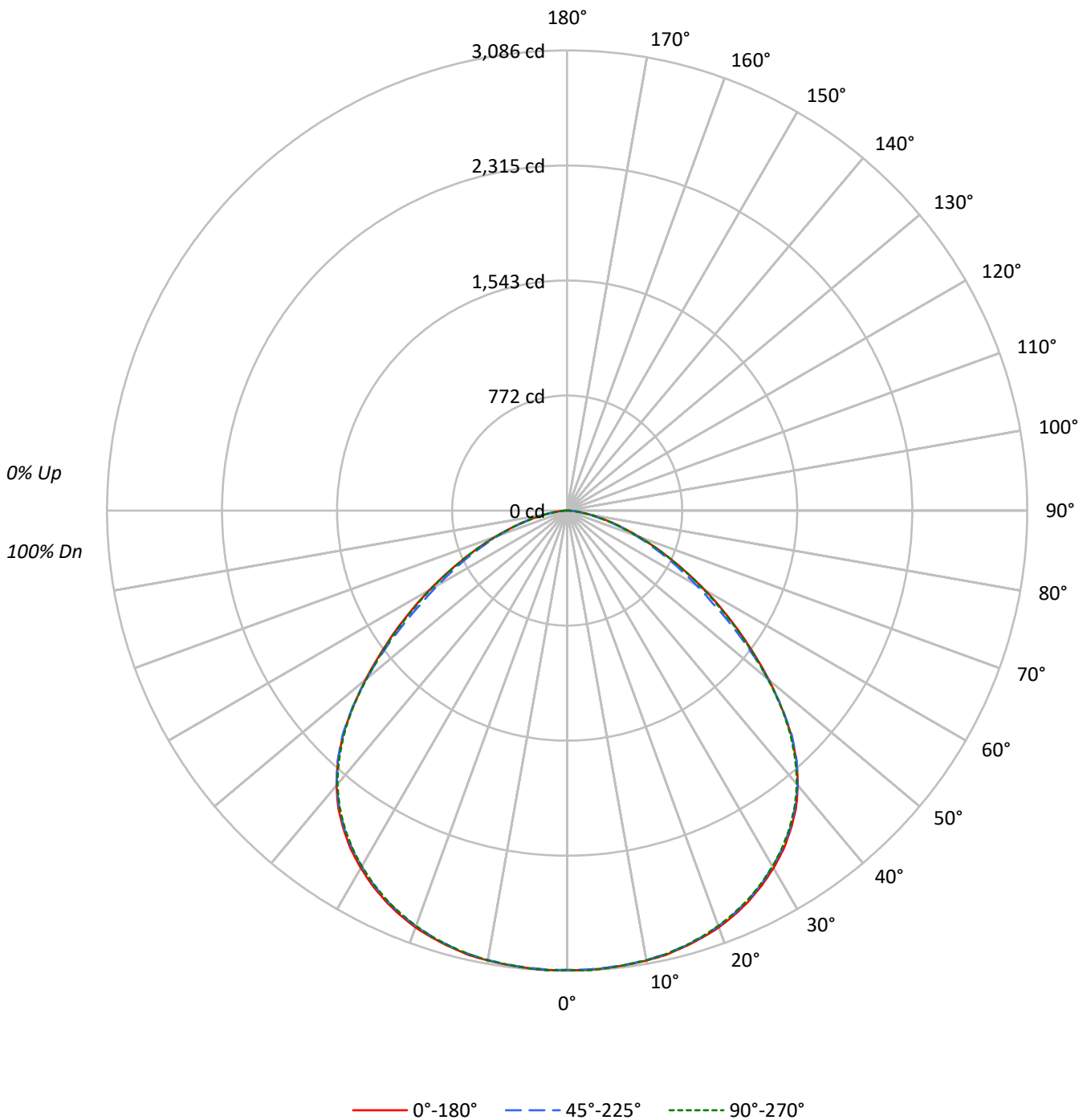
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8089.0 lumens
Efficiency: N/A
Efficacy: 104.6 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): 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	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°	8291	8291	8291
5°	8318	8310	8320
10°	8372	8362	8367
15°	8440	8427	8427
20°	8518	8493	8488
25°	8571	8546	8537
30°	8600	8564	8558
35°	8582	8557	8541
40°	8454	8444	8417
45°	8082	8107	8045
50°	7399	7359	7351
55°	6575	6343	6530
60°	5732	5384	5697
65°	4859	4599	4835
70°	4018	3853	3980
75°	3249	3041	3120
80°	2348	2273	2259
85°	1528	1528	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	3.6
10°-20°	855.0	10.6
20°-30°	1326.7	16.4
30°-40°	1627.0	20.1
40°-50°	1626.4	20.1
50°-60°	1232.0	15.2
60°-70°	738.9	9.1
70°-80°	325.3	4.0
80°-90°	64.5	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°	2474.9	30.6
0°-40°	4101.9	50.7
0°-60°	6960.3	86.0
0°-90°	8089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3081	3081	3081	3081	3081	
5°	3079	3075	3076	3075	3080	293
15°	3030	3027	3025	3023	3025	857
25°	2887	2881	2878	2873	2875	1331
35°	2612	2611	2605	2603	2600	1632
45°	2124	2126	2130	2125	2114	1626
55°	1401	1371	1352	1370	1392	1256
65°	763	736	722	734	759	763
75°	312	306	292	297	300	333
85°	50	51	50	48	48	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3081.1	3081.1	3081.1	3081.1	3081.1
2.5°	3083.9	3079.2	3080.1	3080.1	3085.9
5°	3079.2	3075.4	3076.3	3075.4	3080.1
7.5°	3072.5	3068.7	3069.7	3068.7	3071.6
10°	3063.9	3060.1	3060.1	3058.2	3062.0
12.5°	3052.5	3047.7	3045.8	3044.9	3047.7
15°	3029.6	3026.8	3024.9	3023.0	3024.9
17.5°	3004.9	3000.1	2998.2	2994.4	2998.2
20°	2974.4	2967.7	2965.8	2963.0	2963.9
22.5°	2934.4	2928.7	2925.8	2921.0	2922.9
25°	2886.7	2881.0	2878.2	2873.4	2875.3
27.5°	2831.5	2827.7	2821.0	2817.2	2818.1
30°	2767.6	2763.8	2756.2	2754.3	2754.3
32.5°	2697.1	2692.4	2685.7	2683.8	2682.9
35°	2612.4	2611.4	2604.7	2602.8	2600.0
37.5°	2519.9	2518.0	2510.4	2508.5	2505.6
40°	2406.6	2404.7	2403.7	2399.9	2396.1
42.5°	2275.1	2278.0	2279.9	2272.2	2264.6
45°	2123.6	2126.5	2130.3	2124.6	2114.1
47.5°	1946.4	1957.8	1952.1	1955.9	1945.5
50°	1767.3	1767.3	1757.8	1761.6	1755.9
52.5°	1579.6	1564.4	1552.9	1560.6	1568.2
55°	1401.4	1371.0	1351.9	1370.0	1391.9
57.5°	1230.9	1194.7	1159.5	1188.0	1214.7
60°	1065.1	1023.2	1000.4	1021.3	1058.5
62.5°	907.9	877.5	854.6	870.8	902.2
65°	763.1	736.5	722.2	734.5	759.3
67.5°	630.7	612.6	598.3	608.8	627.8
70°	510.7	505.9	489.7	494.5	505.9
72.5°	401.1	400.1	385.9	389.7	396.3
75°	312.5	305.8	292.5	297.2	300.1
77.5°	221.0	223.9	211.5	214.4	214.4
80°	151.5	156.2	146.7	144.8	145.8
82.5°	96.2	96.2	95.3	94.3	91.5
85°	49.5	51.4	49.5	47.6	47.6
87.5°	19.1	19.1	19.1	18.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)