

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: P412471

Luminaire Tested: **22PD-85-PB1-L835**

Issue Date: 9/15/2020



**Test Information**

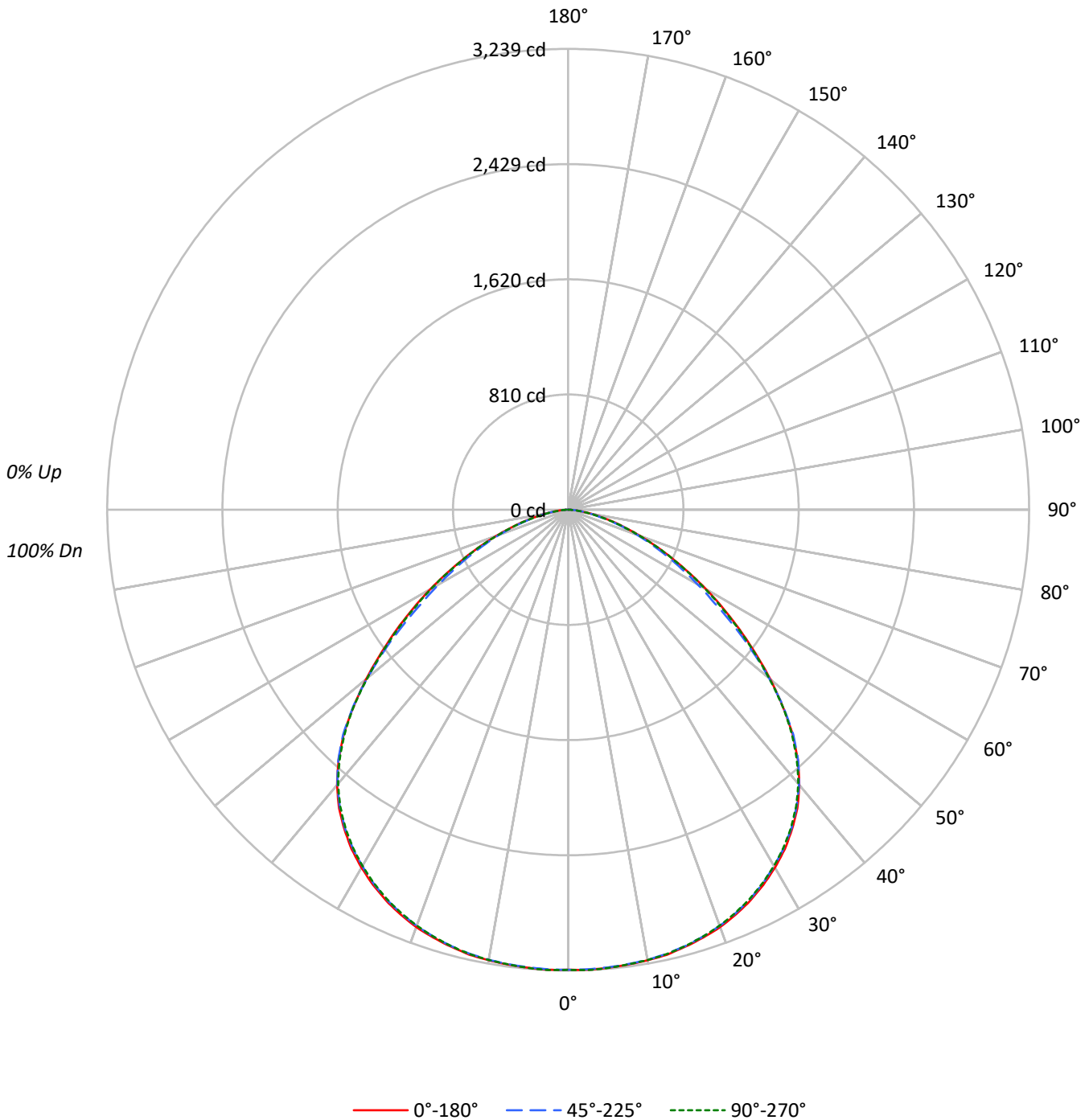
Test Method: LM-79-08  
Report Number: P412471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PB1-L835  
Description: 8500 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: 8490.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 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°	8702	8702	8702
5°	8730	8722	8733
10°	8787	8776	8782
15°	8859	8845	8845
20°	8940	8914	8908
25°	8996	8969	8960
30°	9026	8989	8983
35°	9007	8981	8965
40°	8873	8863	8834
45°	8482	8509	8444
50°	7765	7724	7715
55°	6901	6657	6854
60°	6016	5651	5979
65°	5100	4826	5075
70°	4217	4044	4178
75°	3410	3192	3275
80°	2464	2386	2371
85°	1606	1606	1544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.7	3.6
10°-20°	897.4	10.6
20°-30°	1392.5	16.4
30°-40°	1707.7	20.1
40°-50°	1707.0	20.1
50°-60°	1293.0	15.2
60°-70°	775.5	9.1
70°-80°	341.5	4.0
80°-90°	67.7	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°	2597.6	30.6
0°-40°	4305.3	50.7
0°-60°	7305.3	86.0
0°-90°	8490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3234	3234	3234	3234	3234	
5°	3232	3228	3229	3228	3233	308
15°	3180	3177	3175	3173	3175	899
25°	3030	3024	3021	3016	3018	1397
35°	2742	2741	2734	2732	2729	1712
45°	2229	2232	2236	2230	2219	1706
55°	1471	1439	1419	1438	1461	1319
65°	801	773	758	771	797	801
75°	328	321	307	312	315	350
85°	52	54	52	50	50	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3233.8	3233.8	3233.8	3233.8	3233.8
2.5°	3236.8	3231.8	3232.8	3232.8	3238.8
5°	3231.8	3227.8	3228.8	3227.8	3232.8
7.5°	3224.8	3220.8	3221.8	3220.8	3223.8
10°	3215.8	3211.8	3211.8	3209.8	3213.8
12.5°	3203.8	3198.8	3196.8	3195.8	3198.8
15°	3179.8	3176.8	3174.8	3172.8	3174.8
17.5°	3153.8	3148.8	3146.8	3142.8	3146.8
20°	3121.8	3114.8	3112.8	3109.8	3110.8
22.5°	3079.8	3073.8	3070.8	3065.8	3067.8
25°	3029.8	3023.8	3020.8	3015.8	3017.8
27.5°	2971.8	2967.8	2960.8	2956.8	2957.8
30°	2904.8	2900.8	2892.8	2890.9	2890.9
32.5°	2830.9	2825.9	2818.9	2816.9	2815.9
35°	2741.9	2740.9	2733.9	2731.9	2728.9
37.5°	2644.9	2642.9	2634.9	2632.9	2629.9
40°	2525.9	2523.9	2522.9	2518.9	2514.9
42.5°	2387.9	2390.9	2392.9	2384.9	2376.9
45°	2228.9	2231.9	2235.9	2229.9	2218.9
47.5°	2042.9	2054.9	2048.9	2052.9	2041.9
50°	1854.9	1854.9	1844.9	1848.9	1842.9
52.5°	1657.9	1641.9	1629.9	1637.9	1645.9
55°	1470.9	1438.9	1418.9	1437.9	1460.9
57.5°	1291.9	1253.9	1216.9	1246.9	1274.9
60°	1117.9	1073.9	1049.9	1071.9	1110.9
62.5°	953.0	921.0	897.0	914.0	947.0
65°	801.0	773.0	758.0	771.0	797.0
67.5°	662.0	643.0	628.0	639.0	659.0
70°	536.0	531.0	514.0	519.0	531.0
72.5°	421.0	420.0	405.0	409.0	416.0
75°	328.0	321.0	307.0	312.0	315.0
77.5°	232.0	235.0	222.0	225.0	225.0
80°	159.0	164.0	154.0	152.0	153.0
82.5°	101.0	101.0	100.0	99.0	96.0
85°	52.0	54.0	52.0	50.0	50.0
87.5°	20.0	20.0	20.0	19.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)