

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: P412804

Luminaire Tested: **22PD-80-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

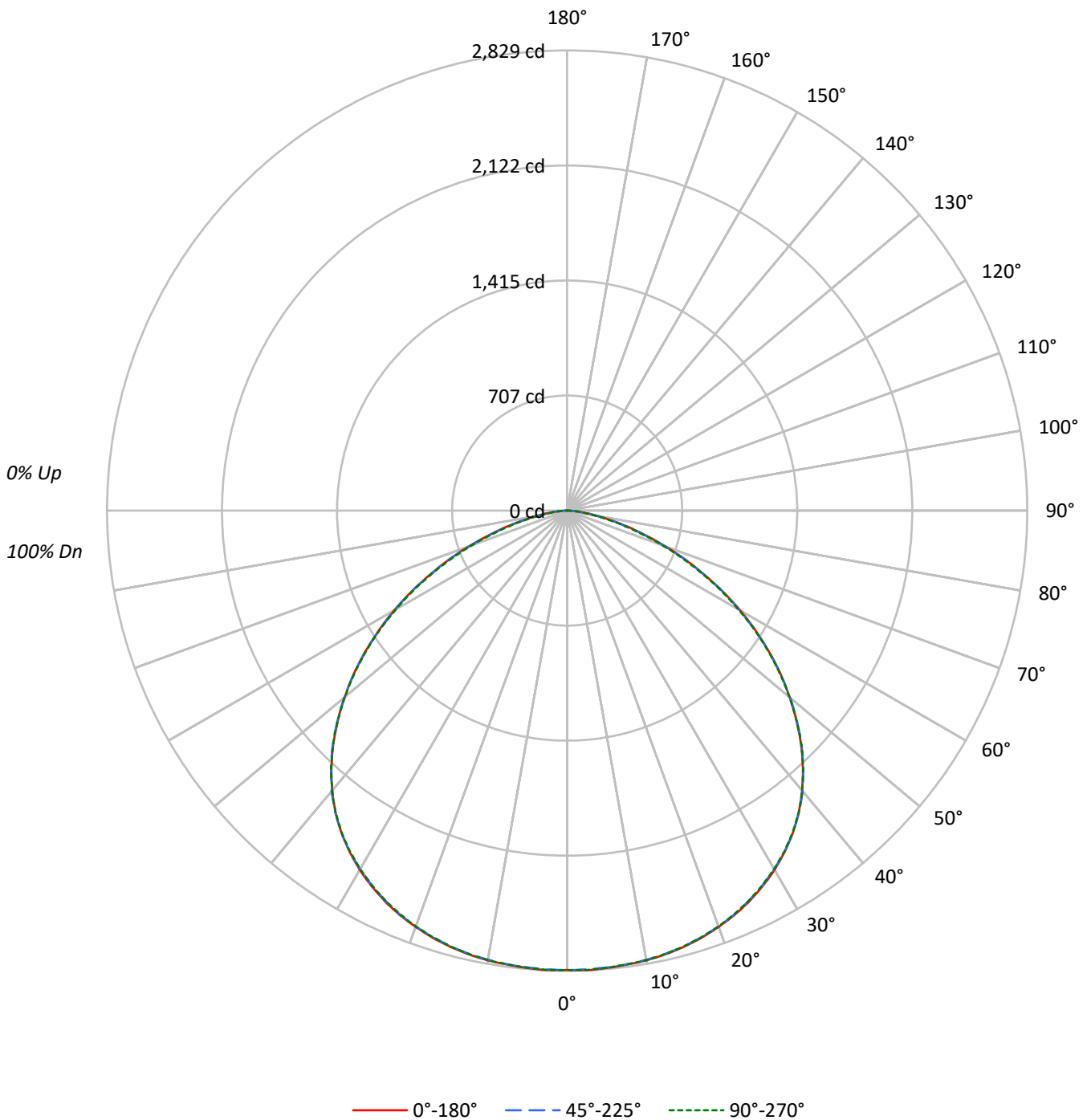
Test Method: LM-79-08  
Report Number: P412804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PP3-L835  
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8105.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7602	7602	7602
5°	7626	7616	7621
10°	7673	7662	7668
15°	7733	7726	7726
20°	7801	7793	7790
25°	7870	7856	7856
30°	7925	7910	7907
35°	7948	7948	7938
40°	7896	7912	7896
45°	7739	7760	7750
50°	7479	7491	7471
55°	7120	7103	7089
60°	6610	6594	6543
65°	5904	5897	5832
70°	5046	5017	4906
75°	4021	3903	3786
80°	2865	2806	2661
85°	1865	1865	1806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.7	3.3
10°-20°	783.6	9.7
20°-30°	1220.2	15.1
30°-40°	1510.2	18.6
40°-50°	1566.0	19.3
50°-60°	1349.8	16.7
60°-70°	917.7	11.3
70°-80°	410.6	5.1
80°-90°	78.2	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°	2272.5	28.0
0°-40°	3782.7	46.7
0°-60°	6698.5	82.6
0°-90°	8105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2825	2825	2825	2825	2825	
5°	2823	2817	2819	2818	2821	269
15°	2776	2771	2773	2771	2773	785
25°	2650	2647	2646	2645	2646	1222
35°	2419	2416	2419	2416	2416	1511
45°	2034	2032	2039	2034	2036	1565
55°	1518	1512	1514	1511	1511	1353
65°	927	935	926	923	916	921
75°	387	388	375	374	364	416
85°	60	62	60	58	58	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2825.0	2825.0	2825.0	2825.0	2825.0
2.5°	2828.7	2823.1	2823.1	2824.0	2826.8
5°	2823.1	2817.4	2819.3	2818.4	2821.2
7.5°	2815.5	2810.8	2813.6	2811.7	2813.6
10°	2808.0	2803.3	2804.2	2803.3	2806.1
12.5°	2794.8	2789.1	2791.0	2791.0	2791.9
15°	2775.9	2771.2	2773.1	2771.2	2773.1
17.5°	2753.3	2747.6	2748.6	2747.6	2749.5
20°	2724.0	2720.3	2721.2	2719.3	2720.3
22.5°	2691.0	2686.3	2687.2	2685.4	2685.4
25°	2650.5	2646.7	2645.7	2644.8	2645.7
27.5°	2603.3	2598.6	2598.6	2597.6	2597.6
30°	2550.5	2545.8	2545.8	2544.8	2544.8
32.5°	2488.2	2486.3	2487.3	2485.4	2484.5
35°	2419.4	2416.5	2419.4	2415.6	2416.5
37.5°	2339.2	2335.4	2341.1	2337.3	2338.3
40°	2247.7	2245.8	2252.4	2249.6	2247.7
42.5°	2145.8	2145.8	2148.7	2149.6	2147.7
45°	2033.6	2031.7	2039.2	2034.5	2036.4
47.5°	1912.9	1910.0	1915.7	1914.7	1913.8
50°	1786.5	1784.6	1789.3	1784.6	1784.6
52.5°	1655.4	1654.4	1655.4	1650.6	1649.7
55°	1517.6	1512.0	1513.9	1511.0	1511.0
57.5°	1374.3	1367.7	1368.6	1367.7	1368.6
60°	1228.1	1226.2	1225.2	1220.5	1215.8
62.5°	1078.1	1080.0	1079.0	1072.4	1067.7
65°	927.2	934.7	926.2	923.4	915.9
67.5°	784.8	787.6	781.9	775.3	766.8
70°	641.4	647.1	637.6	631.0	623.5
72.5°	504.6	508.4	499.9	496.1	486.7
75°	386.7	387.7	375.4	373.5	364.1
77.5°	275.4	279.2	269.8	269.8	260.3
80°	184.9	191.5	181.1	178.3	171.7
82.5°	116.0	117.0	114.1	111.3	108.5
85°	60.4	62.3	60.4	58.5	58.5
87.5°	22.6	23.6	22.6	21.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)