

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: P412815

Luminaire Tested: **22PD-85-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412815
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-85-PP3-L850
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

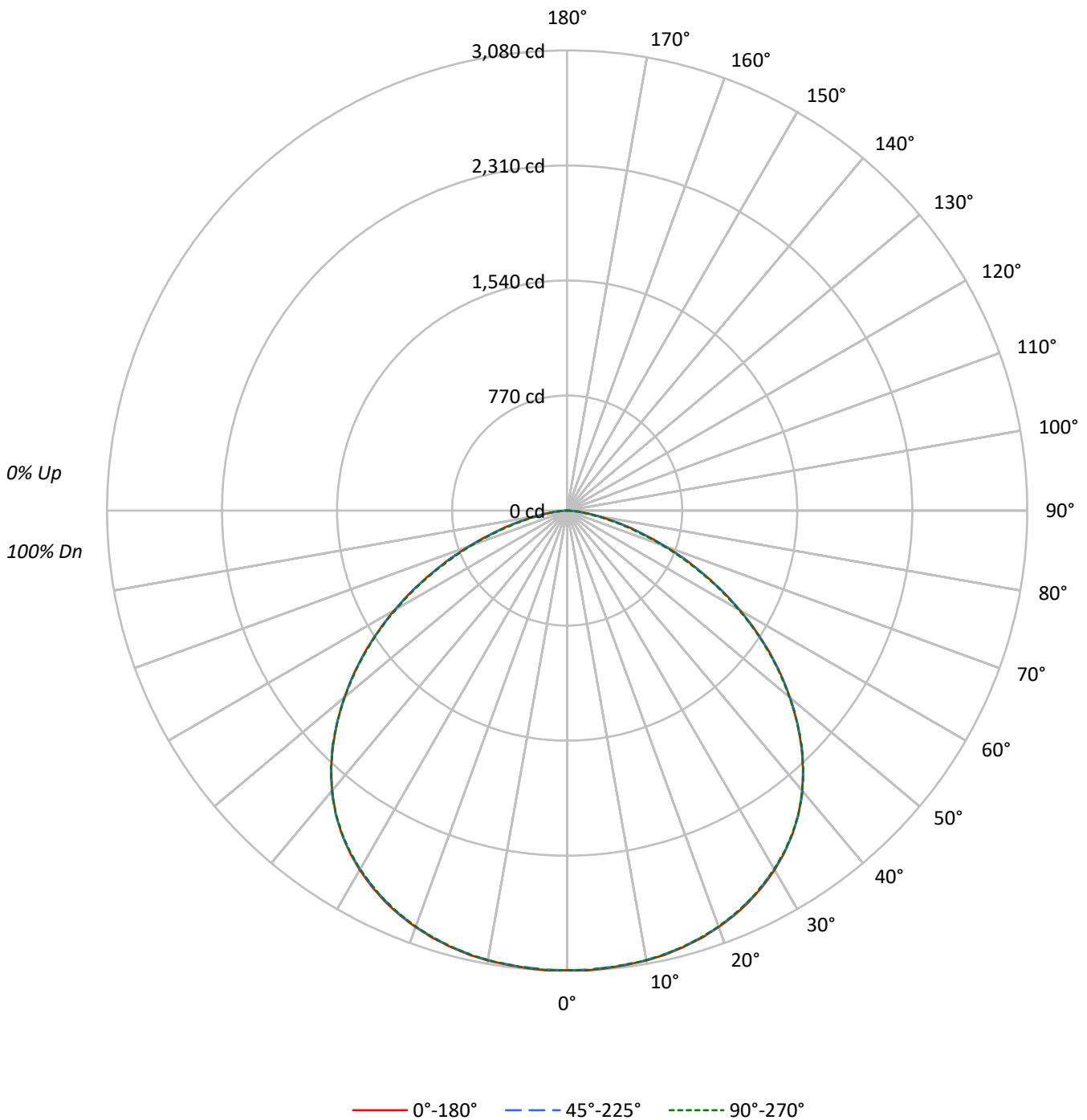
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8826.0 lumens
Efficiency: N/A
Efficacy: 114.2 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): 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	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°	8278	8278	8278
5°	8304	8293	8299
10°	8355	8344	8350
15°	8421	8413	8413
20°	8495	8486	8483
25°	8570	8554	8554
30°	8630	8614	8611
35°	8655	8655	8645
40°	8598	8616	8598
45°	8428	8451	8439
50°	8144	8157	8135
55°	7754	7734	7720
60°	7197	7181	7126
65°	6429	6422	6350
70°	5495	5463	5342
75°	4378	4250	4122
80°	3119	3056	2896
85°	2029	2029	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	3.3
10°-20°	853.3	9.7
20°-30°	1328.7	15.1
30°-40°	1644.6	18.6
40°-50°	1705.3	19.3
50°-60°	1469.9	16.7
60°-70°	999.3	11.3
70°-80°	447.2	5.1
80°-90°	85.2	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°	2474.6	28.0
0°-40°	4119.2	46.7
0°-60°	7294.4	82.6
0°-90°	8826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3076	3076	3076	3076	3076	
5°	3074	3068	3070	3069	3072	293
15°	3023	3018	3020	3018	3020	855
25°	2886	2882	2881	2880	2881	1331
35°	2635	2632	2635	2630	2632	1646
45°	2214	2212	2221	2216	2218	1704
55°	1653	1646	1648	1646	1646	1474
65°	1010	1018	1009	1006	997	1003
75°	421	422	409	407	396	453
85°	66	68	66	64	64	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3076.3	3076.3	3076.3	3076.3	3076.3
2.5°	3080.4	3074.2	3074.2	3075.2	3078.3
5°	3074.2	3068.0	3070.1	3069.1	3072.1
7.5°	3066.0	3060.8	3063.9	3061.9	3063.9
10°	3057.8	3052.6	3053.7	3052.6	3055.7
12.5°	3043.4	3037.2	3039.3	3039.3	3040.3
15°	3022.8	3017.7	3019.8	3017.7	3019.8
17.5°	2998.2	2992.0	2993.1	2992.0	2994.1
20°	2966.4	2962.2	2963.3	2961.2	2962.2
22.5°	2930.4	2925.3	2926.3	2924.2	2924.2
25°	2886.2	2882.1	2881.1	2880.1	2881.1
27.5°	2834.9	2829.7	2829.7	2828.7	2828.7
30°	2777.4	2772.2	2772.2	2771.2	2771.2
32.5°	2709.6	2707.5	2708.5	2706.5	2705.5
35°	2634.6	2631.5	2634.6	2630.5	2631.5
37.5°	2547.3	2543.2	2549.3	2545.2	2546.3
40°	2447.7	2445.6	2452.8	2449.7	2447.7
42.5°	2336.7	2336.7	2339.8	2340.8	2338.8
45°	2214.5	2212.4	2220.7	2215.5	2217.6
47.5°	2083.0	2079.9	2086.1	2085.1	2084.0
50°	1945.4	1943.3	1948.5	1943.3	1943.3
52.5°	1802.6	1801.6	1802.6	1797.5	1796.5
55°	1652.7	1646.5	1648.5	1645.5	1645.5
57.5°	1496.5	1489.3	1490.4	1489.3	1490.4
60°	1337.3	1335.3	1334.2	1329.1	1324.0
62.5°	1174.0	1176.1	1175.0	1167.8	1162.7
65°	1009.7	1017.9	1008.6	1005.6	997.3
67.5°	854.6	857.7	851.5	844.3	835.1
70°	698.4	704.6	694.3	687.2	678.9
72.5°	549.5	553.6	544.4	540.3	530.0
75°	421.1	422.2	408.8	406.7	396.5
77.5°	299.9	304.0	293.8	293.8	283.5
80°	201.3	208.5	197.2	194.1	186.9
82.5°	126.3	127.4	124.3	121.2	118.1
85°	65.7	67.8	65.7	63.7	63.7
87.5°	24.7	25.7	24.7	23.6	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)