

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: P412939

Luminaire Tested: **24PD-90-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-90-PP3-L835
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

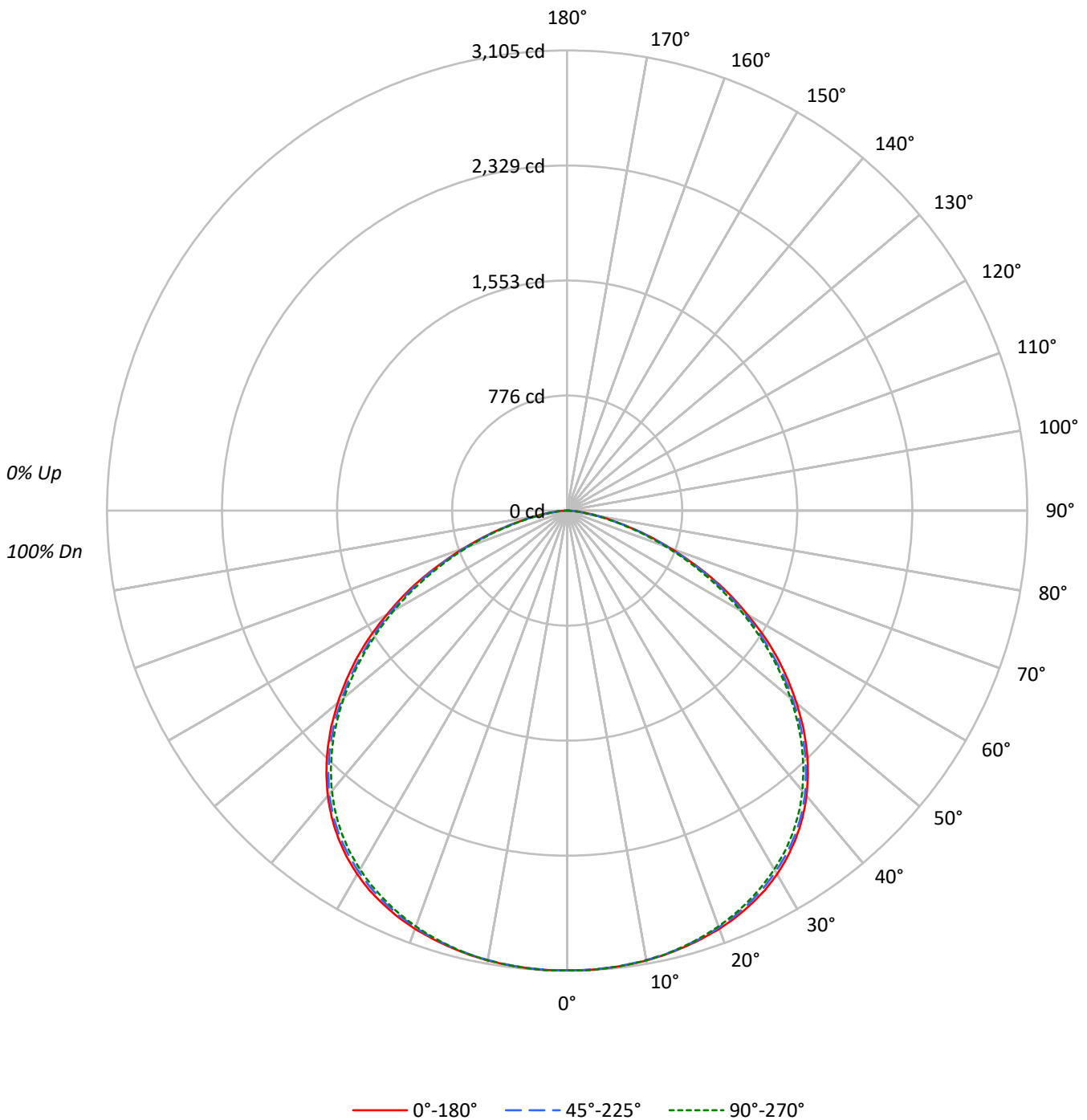
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9027.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.7
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	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
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°	4174	4174	4174
5°	4185	4184	4186
10°	4211	4207	4210
15°	4249	4242	4240
20°	4300	4286	4275
25°	4354	4331	4311
30°	4402	4371	4343
35°	4426	4399	4359
40°	4414	4387	4338
45°	4351	4309	4260
50°	4232	4164	4120
55°	4057	3959	3909
60°	3780	3714	3639
65°	3426	3358	3260
70°	2924	2871	2779
75°	2284	2260	2153
80°	1684	1615	1524
85°	1017	1017	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	3.3
10°-20°	861.3	9.5
20°-30°	1346.2	14.9
30°-40°	1673.1	18.5
40°-50°	1743.2	19.3
50°-60°	1512.6	16.8
60°-70°	1040.1	11.5
70°-80°	469.4	5.2
80°-90°	86.0	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°	2502.6	27.7
0°-40°	4175.7	46.3
0°-60°	7431.5	82.3
0°-90°	9027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3102	3102	3102	3102	3102	
5°	3099	3100	3098	3095	3100	295
15°	3050	3050	3046	3043	3044	863
25°	2933	2932	2917	2906	2904	1353
35°	2695	2695	2678	2663	2654	1684
45°	2287	2288	2264	2247	2239	1760
55°	1729	1719	1688	1668	1666	1541
65°	1076	1072	1055	1029	1024	1062
75°	439	441	435	423	414	478
85°	66	65	66	65	61	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3102.3	3102.3	3102.3	3102.3	3102.3
2.5°	3103.2	3103.2	3101.4	3098.7	3105.0
5°	3098.7	3099.6	3097.8	3095.1	3099.6
7.5°	3092.4	3093.3	3090.6	3087.9	3091.5
10°	3082.5	3081.6	3078.9	3077.1	3081.6
12.5°	3068.0	3067.1	3064.4	3062.6	3066.2
15°	3050.0	3050.0	3045.5	3042.8	3043.7
17.5°	3028.3	3028.3	3022.0	3015.7	3017.5
20°	3003.1	3002.2	2993.2	2986.8	2985.9
22.5°	2971.5	2971.5	2958.9	2950.8	2948.1
25°	2932.7	2931.8	2917.4	2905.7	2903.9
27.5°	2888.5	2886.7	2869.6	2857.8	2853.3
30°	2833.5	2831.7	2813.6	2801.0	2795.6
32.5°	2768.5	2771.2	2750.5	2736.1	2730.7
35°	2694.6	2694.6	2678.3	2663.0	2654.0
37.5°	2609.8	2609.8	2594.4	2579.1	2568.3
40°	2513.2	2514.1	2497.9	2479.0	2469.9
42.5°	2405.0	2406.8	2385.1	2369.8	2359.9
45°	2286.8	2287.7	2264.3	2247.1	2239.0
47.5°	2158.7	2156.9	2130.8	2116.3	2108.2
50°	2021.6	2018.0	1989.1	1975.6	1968.4
52.5°	1878.2	1871.0	1845.7	1825.8	1819.5
55°	1729.3	1719.4	1687.8	1668.0	1666.2
57.5°	1574.2	1562.4	1536.3	1517.3	1510.1
60°	1404.6	1401.9	1380.2	1357.7	1352.2
62.5°	1245.8	1237.7	1218.7	1191.7	1189.0
65°	1076.2	1071.7	1054.6	1029.3	1023.9
67.5°	901.2	905.7	891.3	868.7	861.5
70°	743.3	746.0	729.8	709.0	706.3
72.5°	584.6	589.1	575.5	562.0	559.3
75°	439.3	441.1	434.8	423.1	414.1
77.5°	312.1	318.4	311.2	303.1	295.9
80°	217.4	207.5	208.4	204.8	196.7
82.5°	130.8	126.3	125.4	121.8	118.2
85°	65.9	65.0	65.9	65.0	61.3
87.5°	21.7	23.5	24.4	24.4	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)