

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: P412948

Luminaire Tested: **24PD-95-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412948
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-95-PP3-L835
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

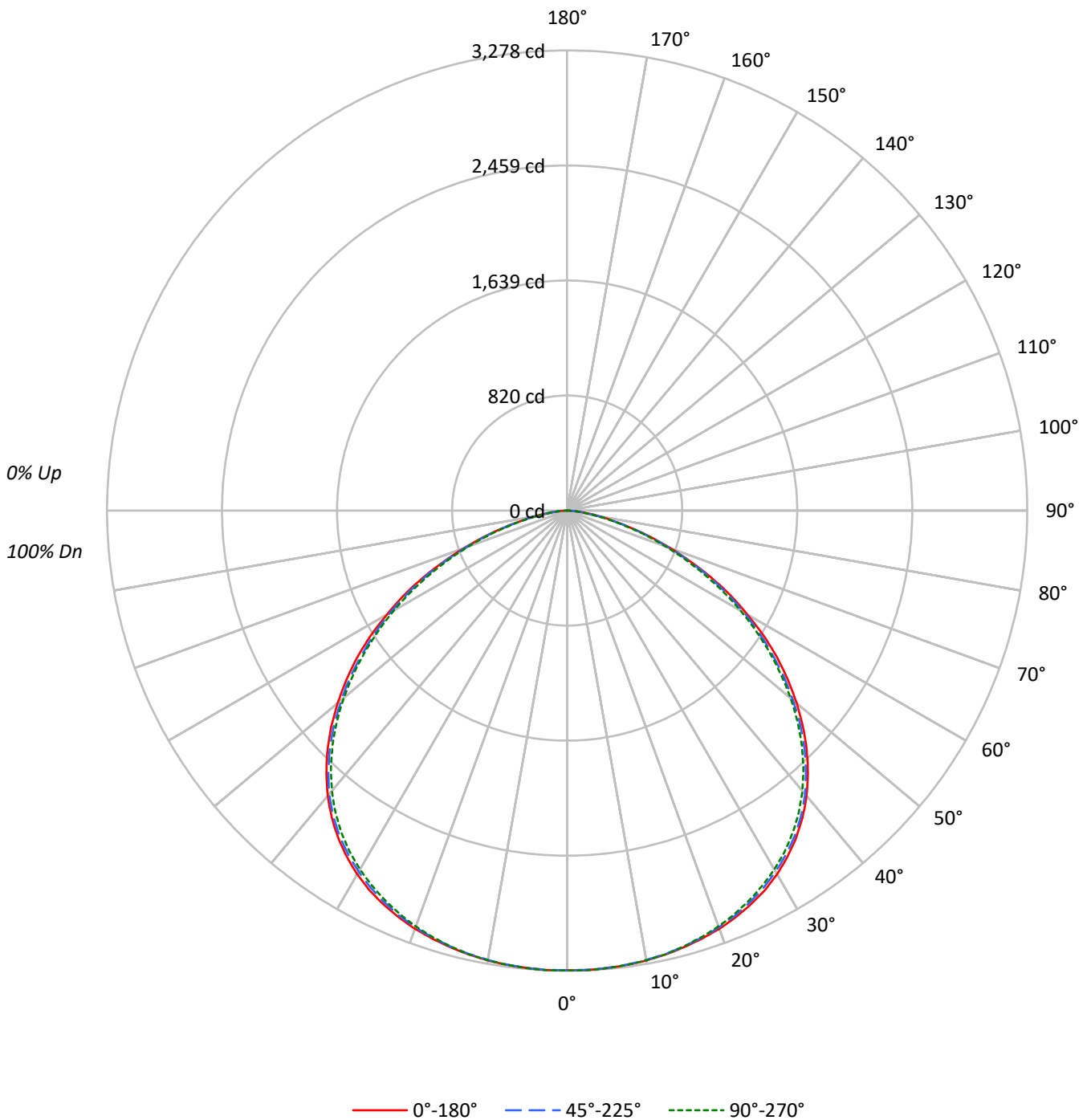
Lumens per Lamp: N/A
Luminaire Lumens: 9529.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 73
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°	4406	4406	4406
5°	4418	4417	4419
10°	4446	4440	4444
15°	4485	4478	4475
20°	4539	4524	4513
25°	4596	4572	4551
30°	4647	4614	4585
35°	4672	4644	4602
40°	4660	4631	4579
45°	4593	4548	4497
50°	4467	4395	4349
55°	4282	4179	4126
60°	3990	3921	3841
65°	3617	3544	3441
70°	3087	3031	2933
75°	2411	2386	2272
80°	1778	1705	1609
85°	1073	1073	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	3.3
10°-20°	909.2	9.5
20°-30°	1421.1	14.9
30°-40°	1766.1	18.5
40°-50°	1840.1	19.3
50°-60°	1596.7	16.8
60°-70°	1097.9	11.5
70°-80°	495.5	5.2
80°-90°	90.8	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°	2641.8	27.7
0°-40°	4407.9	46.3
0°-60°	7844.8	82.3
0°-90°	9529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3275	3275	3275	3275	3275	
5°	3271	3272	3270	3267	3272	312
15°	3220	3220	3215	3212	3213	911
25°	3096	3095	3080	3067	3065	1428
35°	2844	2844	2827	2811	2802	1777
45°	2414	2415	2390	2372	2364	1858
55°	1826	1815	1782	1761	1759	1627
65°	1136	1131	1113	1086	1081	1121
75°	464	466	459	447	437	505
85°	70	69	70	69	65	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3274.8	3274.8	3274.8	3274.8	3274.8
2.5°	3275.8	3275.8	3273.9	3271.0	3277.7
5°	3271.0	3272.0	3270.1	3267.2	3272.0
7.5°	3264.4	3265.3	3262.5	3259.6	3263.4
10°	3253.9	3252.9	3250.1	3248.2	3252.9
12.5°	3238.7	3237.7	3234.8	3232.9	3236.7
15°	3219.6	3219.6	3214.8	3212.0	3212.9
17.5°	3196.8	3196.8	3190.1	3183.4	3185.3
20°	3170.1	3169.1	3159.6	3152.9	3152.0
22.5°	3136.8	3136.8	3123.4	3114.9	3112.0
25°	3095.8	3094.9	3079.6	3067.2	3065.3
27.5°	3049.2	3047.2	3029.2	3016.8	3012.0
30°	2991.1	2989.2	2970.1	2956.8	2951.1
32.5°	2922.5	2925.4	2903.5	2888.2	2882.5
35°	2844.4	2844.4	2827.3	2811.1	2801.6
37.5°	2754.9	2754.9	2738.7	2722.5	2711.1
40°	2653.0	2654.0	2636.8	2616.8	2607.3
42.5°	2538.7	2540.6	2517.8	2501.6	2491.1
45°	2414.0	2414.9	2390.2	2372.1	2363.5
47.5°	2278.8	2276.9	2249.3	2234.0	2225.4
50°	2134.0	2130.2	2099.7	2085.5	2077.8
52.5°	1982.6	1975.0	1948.3	1927.4	1920.7
55°	1825.5	1815.0	1781.7	1760.7	1758.8
57.5°	1661.7	1649.3	1621.7	1601.7	1594.1
60°	1482.7	1479.8	1457.0	1433.2	1427.4
62.5°	1315.1	1306.5	1286.5	1257.9	1255.1
65°	1136.1	1131.3	1113.2	1086.5	1080.8
67.5°	951.3	956.1	940.8	917.0	909.4
70°	784.7	787.5	770.4	748.5	745.6
72.5°	617.1	621.8	607.5	593.3	590.4
75°	463.8	465.7	459.0	446.6	437.1
77.5°	329.5	336.1	328.5	320.0	312.3
80°	229.5	219.0	220.0	216.2	207.6
82.5°	138.1	133.3	132.4	128.6	124.7
85°	69.5	68.6	69.5	68.6	64.8
87.5°	22.9	24.8	25.7	25.7	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)