

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: P412930

Luminaire Tested: **24PD-85-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412930
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-85-PP3-L835
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

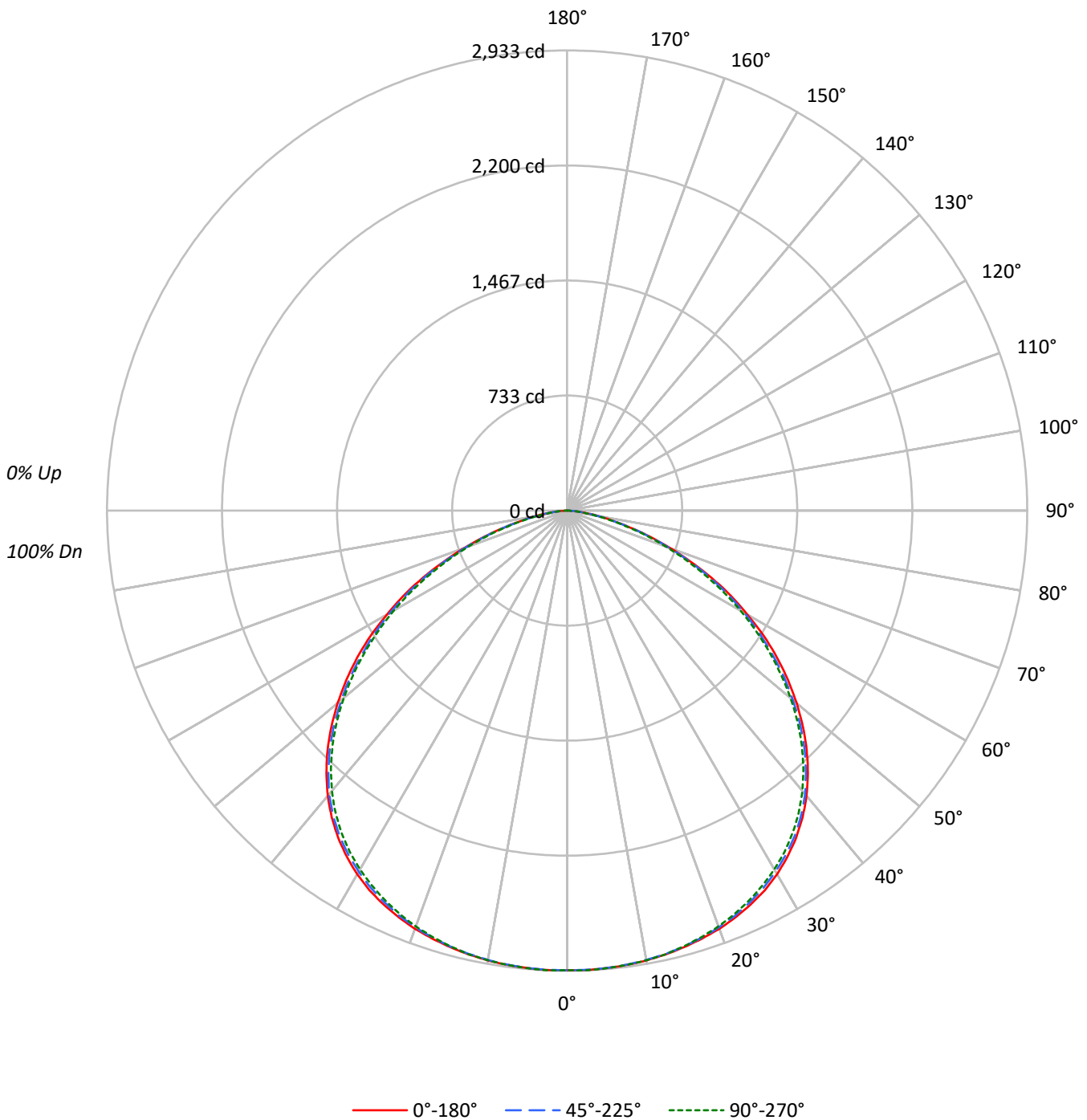
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8526.0 lumens
Efficiency: N/A
Efficacy: 132.2 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): 64.5
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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3942	3942	3942
5°	3953	3952	3954
10°	3978	3973	3976
15°	4013	4007	4004
20°	4061	4048	4038
25°	4112	4091	4072
30°	4158	4129	4102
35°	4180	4155	4117
40°	4169	4144	4098
45°	4110	4069	4024
50°	3997	3933	3891
55°	3831	3740	3692
60°	3570	3508	3437
65°	3236	3171	3079
70°	2762	2712	2624
75°	2157	2135	2033
80°	1591	1525	1439
85°	960	960	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	3.3
10°-20°	813.5	9.5
20°-30°	1271.5	14.9
30°-40°	1580.2	18.5
40°-50°	1646.4	19.3
50°-60°	1428.7	16.8
60°-70°	982.4	11.5
70°-80°	443.3	5.2
80°-90°	81.2	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°	2363.7	27.7
0°-40°	3943.9	46.3
0°-60°	7019.1	82.3
0°-90°	8526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2930	2930	2930	2930	2930	
5°	2927	2928	2926	2923	2928	279
15°	2881	2881	2876	2874	2875	815
25°	2770	2769	2756	2744	2743	1278
35°	2545	2545	2530	2515	2507	1590
45°	2160	2161	2139	2122	2115	1662
55°	1633	1624	1594	1575	1574	1456
65°	1016	1012	996	972	967	1003
75°	415	417	411	400	391	452
85°	62	61	62	61	58	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2930.1	2930.1	2930.1	2930.1	2930.1
2.5°	2931.0	2931.0	2929.3	2926.7	2932.7
5°	2926.7	2927.6	2925.9	2923.3	2927.6
7.5°	2920.8	2921.6	2919.1	2916.5	2919.9
10°	2911.4	2910.5	2908.0	2906.3	2910.5
12.5°	2897.8	2896.9	2894.4	2892.6	2896.1
15°	2880.7	2880.7	2876.5	2873.9	2874.8
17.5°	2860.3	2860.3	2854.3	2848.3	2850.0
20°	2836.4	2835.6	2827.0	2821.1	2820.2
22.5°	2806.6	2806.6	2794.7	2787.0	2784.4
25°	2770.0	2769.1	2755.5	2744.4	2742.7
27.5°	2728.2	2726.5	2710.3	2699.2	2695.0
30°	2676.2	2674.5	2657.5	2645.6	2640.4
32.5°	2614.9	2617.4	2597.8	2584.2	2579.1
35°	2545.0	2545.0	2529.7	2515.2	2506.7
37.5°	2464.9	2464.9	2450.4	2436.0	2425.7
40°	2373.8	2374.6	2359.3	2341.4	2332.9
42.5°	2271.5	2273.2	2252.8	2238.3	2228.9
45°	2159.9	2160.8	2138.6	2122.4	2114.7
47.5°	2038.9	2037.2	2012.5	1998.9	1991.2
50°	1909.4	1906.0	1878.7	1865.9	1859.1
52.5°	1773.9	1767.1	1743.3	1724.5	1718.5
55°	1633.3	1624.0	1594.2	1575.4	1573.7
57.5°	1486.8	1475.7	1451.0	1433.1	1426.3
60°	1326.6	1324.1	1303.6	1282.3	1277.2
62.5°	1176.7	1169.0	1151.1	1125.5	1123.0
65°	1016.5	1012.2	996.0	972.2	967.1
67.5°	851.2	855.4	841.8	820.5	813.7
70°	702.1	704.6	689.3	669.7	667.1
72.5°	552.1	556.4	543.6	530.8	528.3
75°	414.9	416.6	410.7	399.6	391.1
77.5°	294.8	300.8	294.0	286.3	279.5
80°	205.3	196.0	196.8	193.4	185.7
82.5°	123.5	119.3	118.4	115.0	111.6
85°	62.2	61.3	62.2	61.3	57.9
87.5°	20.4	22.2	23.0	23.0	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)