

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: P412938

Luminaire Tested: **24PD-90-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412938
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-L830
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

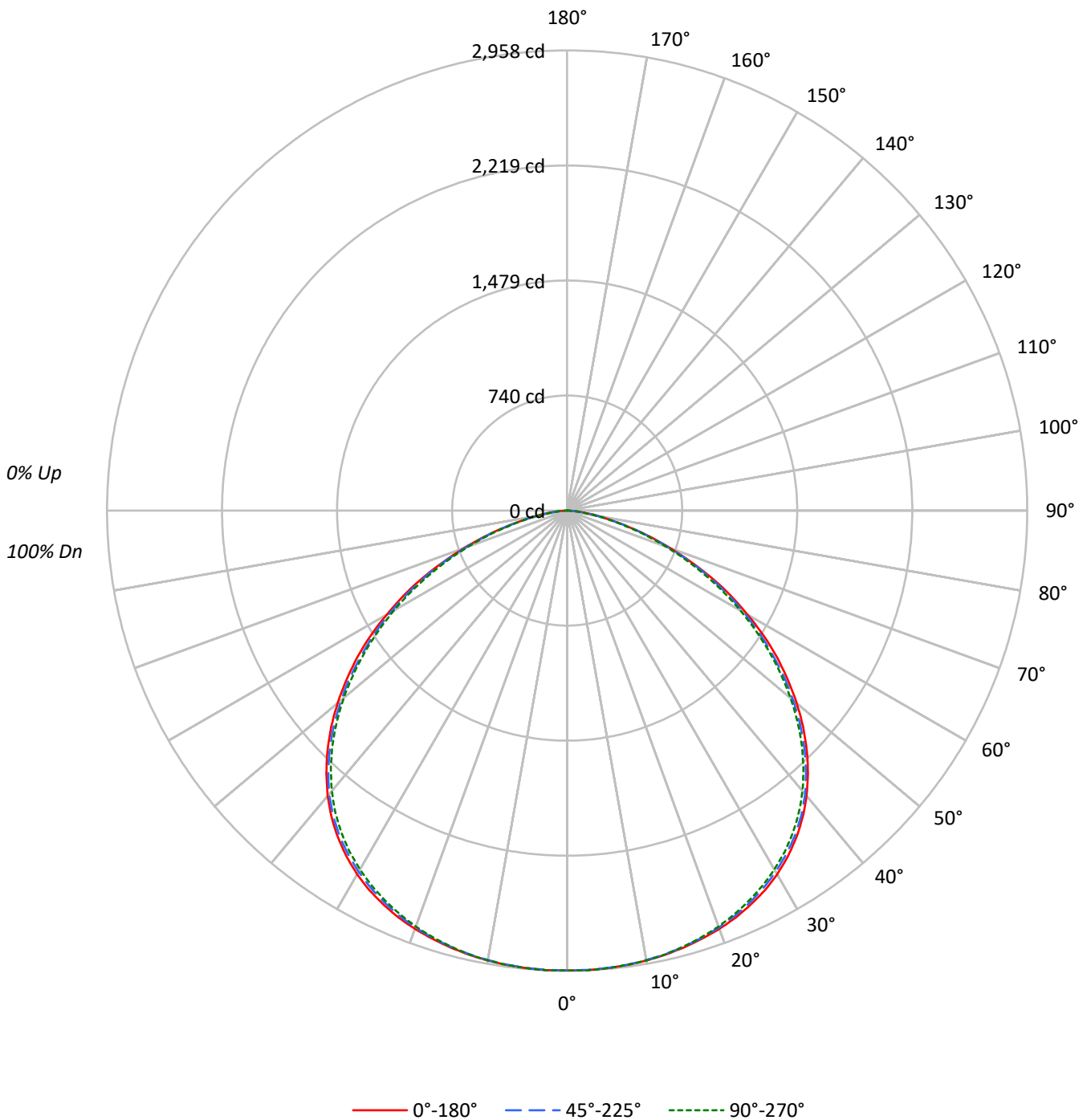
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8601.0 lumens
Efficiency: N/A
Efficacy: 125.2 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): 68.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	3977	3977	3977
5°	3988	3987	3989
10°	4013	4008	4011
15°	4048	4042	4040
20°	4097	4083	4074
25°	4148	4127	4108
30°	4195	4165	4138
35°	4217	4192	4153
40°	4206	4180	4134
45°	4146	4105	4059
50°	4032	3967	3926
55°	3865	3772	3724
60°	3601	3539	3467
65°	3265	3199	3106
70°	2786	2736	2648
75°	2176	2154	2051
80°	1605	1539	1452
85°	968	968	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	3.3
10°-20°	820.6	9.5
20°-30°	1282.7	14.9
30°-40°	1594.1	18.5
40°-50°	1660.9	19.3
50°-60°	1441.3	16.8
60°-70°	991.0	11.5
70°-80°	447.2	5.2
80°-90°	81.9	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
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0°-30°	2384.5	27.7
0°-40°	3978.6	46.3
0°-60°	7080.8	82.3
0°-90°	8601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2956	2956	2956	2956	2956	
5°	2952	2953	2952	2949	2953	281
15°	2906	2906	2902	2899	2900	822
25°	2794	2794	2780	2768	2767	1289
35°	2567	2567	2552	2537	2529	1604
45°	2179	2180	2157	2141	2133	1677
55°	1648	1638	1608	1589	1588	1468
65°	1025	1021	1005	981	976	1012
75°	419	420	414	403	394	456
85°	63	62	63	62	58	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2955.9	2955.9	2955.9	2955.9	2955.9
2.5°	2956.8	2956.8	2955.1	2952.5	2958.5
5°	2952.5	2953.3	2951.6	2949.0	2953.3
7.5°	2946.5	2947.3	2944.7	2942.2	2945.6
10°	2937.0	2936.1	2933.6	2931.8	2936.1
12.5°	2923.3	2922.4	2919.8	2918.1	2921.5
15°	2906.1	2906.1	2901.8	2899.2	2900.0
17.5°	2885.4	2885.4	2879.4	2873.4	2875.1
20°	2861.4	2860.5	2851.9	2845.9	2845.0
22.5°	2831.3	2831.3	2819.2	2811.5	2808.9
25°	2794.3	2793.5	2779.7	2768.5	2766.8
27.5°	2752.2	2750.5	2734.2	2723.0	2718.7
30°	2699.8	2698.1	2680.9	2668.8	2663.7
32.5°	2637.9	2640.5	2620.7	2606.9	2601.8
35°	2567.4	2567.4	2551.9	2537.3	2528.7
37.5°	2486.6	2486.6	2472.0	2457.4	2447.1
40°	2394.6	2395.5	2380.0	2362.0	2353.4
42.5°	2291.5	2293.2	2272.6	2258.0	2248.5
45°	2178.9	2179.8	2157.4	2141.1	2133.3
47.5°	2056.8	2055.1	2030.2	2016.5	2008.7
50°	1926.2	1922.8	1895.3	1882.4	1875.5
52.5°	1789.5	1782.7	1758.6	1739.7	1733.7
55°	1647.7	1638.3	1608.2	1589.3	1587.5
57.5°	1499.9	1488.7	1463.8	1445.7	1438.8
60°	1338.3	1335.7	1315.1	1293.6	1288.4
62.5°	1187.0	1179.3	1161.2	1135.4	1132.9
65°	1025.4	1021.1	1004.8	980.7	975.6
67.5°	858.7	863.0	849.2	827.7	820.8
70°	708.3	710.8	695.4	675.6	673.0
72.5°	557.0	561.3	548.4	535.5	532.9
75°	418.6	420.3	414.3	403.1	394.5
77.5°	297.4	303.4	296.5	288.8	281.9
80°	207.1	197.7	198.6	195.1	187.4
82.5°	124.6	120.3	119.5	116.0	112.6
85°	62.7	61.9	62.7	61.9	58.4
87.5°	20.6	22.3	23.2	23.2	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)