

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: P412605

Luminaire Tested: **24PD-95-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-95-PB1-L830
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

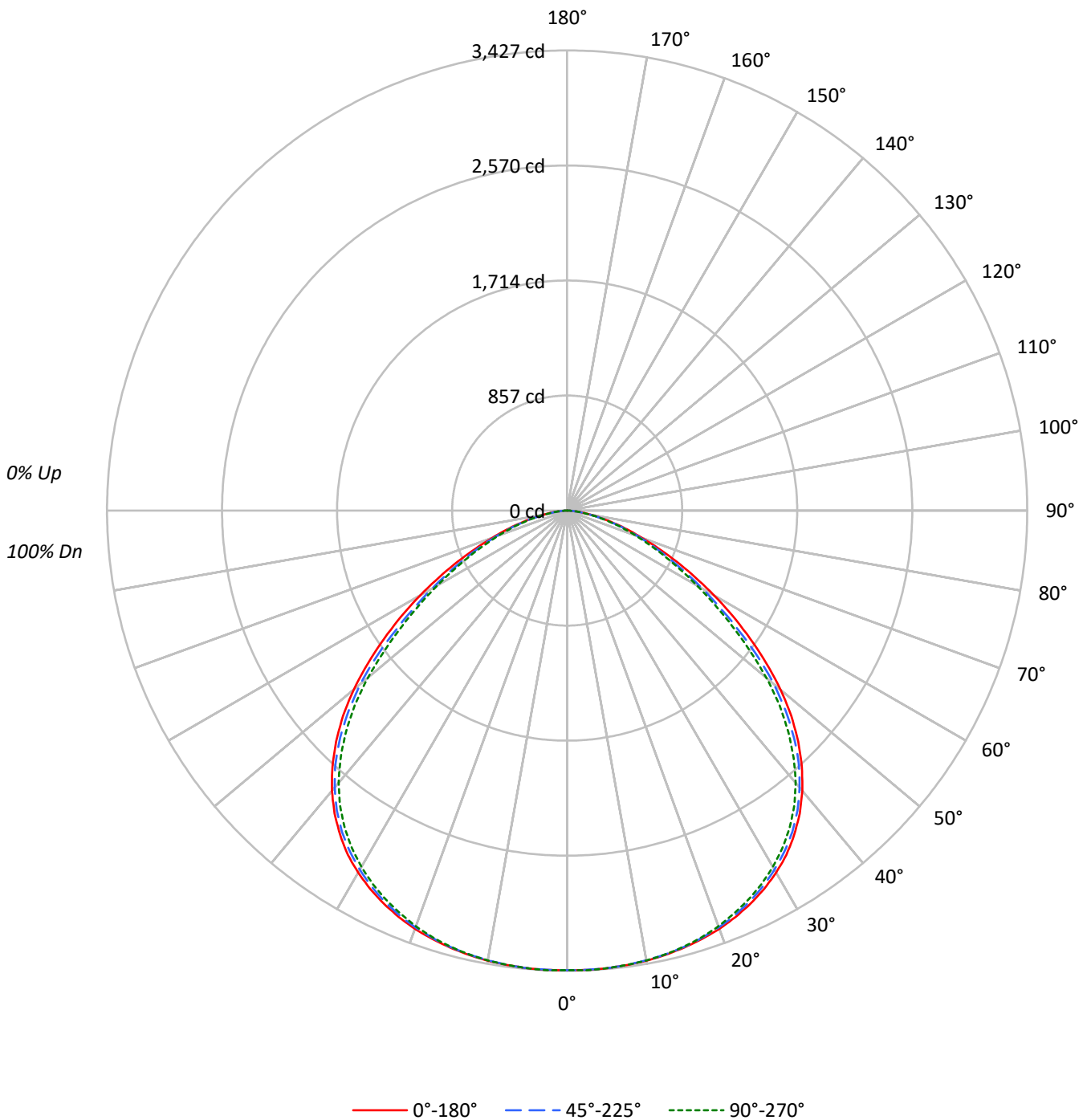
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9107.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4605	4605	4605
5°	4620	4620	4620
10°	4651	4646	4648
15°	4693	4687	4683
20°	4746	4730	4717
25°	4796	4771	4744
30°	4837	4797	4761
35°	4842	4801	4741
40°	4786	4730	4651
45°	4631	4546	4429
50°	4343	4208	4054
55°	3902	3671	3520
60°	3398	3127	3007
65°	2859	2645	2530
70°	2330	2212	2123
75°	1867	1801	1726
80°	1434	1321	1286
85°	897	868	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.8	3.6
10°-20°	951.1	10.4
20°-30°	1481.7	16.3
30°-40°	1822.8	20.0
40°-50°	1830.9	20.1
50°-60°	1411.1	15.5
60°-70°	837.7	9.2
70°-80°	373.0	4.1
80°-90°	72.8	0.8
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°	2758.7	30.3
0°-40°	4581.4	50.3
0°-60°	7823.5	85.9
0°-90°	9107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3422	3422	3422	3422	3422	
5°	3421	3422	3421	3417	3421	326
15°	3369	3369	3364	3359	3362	953
25°	3230	3229	3214	3199	3196	1490
35°	2948	2944	2923	2898	2886	1841
45°	2434	2427	2389	2349	2328	1868
55°	1664	1632	1565	1518	1500	1488
65°	898	859	831	799	795	897
75°	359	352	346	335	332	389
85°	58	55	56	54	56	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3422.5	3422.5	3422.5	3422.5	3422.5
2.5°	3424.3	3423.4	3423.4	3419.8	3427.1
5°	3420.7	3421.6	3420.7	3417.1	3420.7
7.5°	3413.5	3414.4	3412.5	3408.9	3412.5
10°	3404.4	3404.4	3400.8	3398.9	3401.7
12.5°	3389.0	3389.0	3385.3	3382.6	3385.3
15°	3369.0	3369.0	3364.5	3359.0	3361.8
17.5°	3344.5	3344.5	3337.3	3330.0	3331.8
20°	3314.6	3313.7	3303.7	3293.7	3294.6
22.5°	3276.5	3275.6	3262.9	3251.1	3247.5
25°	3230.2	3229.3	3213.9	3199.4	3195.7
27.5°	3176.7	3173.1	3155.8	3139.5	3135.9
30°	3113.2	3110.5	3087.8	3071.5	3064.2
32.5°	3039.7	3032.5	3011.6	2991.6	2981.7
35°	2948.1	2943.6	2922.7	2898.2	2886.4
37.5°	2844.7	2840.2	2817.5	2790.3	2776.7
40°	2725.0	2721.3	2693.2	2665.1	2647.9
42.5°	2587.1	2584.4	2554.4	2515.4	2497.3
45°	2433.8	2427.4	2389.3	2349.4	2327.6
47.5°	2263.2	2252.4	2206.1	2168.0	2144.4
50°	2074.6	2060.0	2010.2	1961.2	1936.7
52.5°	1870.5	1845.1	1793.4	1737.1	1713.5
55°	1663.6	1631.9	1564.8	1517.6	1500.4
57.5°	1461.4	1415.1	1351.6	1318.0	1300.8
60°	1262.7	1211.9	1162.0	1129.4	1117.6
62.5°	1073.1	1030.5	987.8	955.2	947.9
65°	898.0	859.0	830.9	799.2	794.6
67.5°	734.8	716.6	691.2	664.0	660.4
70°	592.3	585.1	562.4	546.1	539.7
72.5°	472.6	465.3	449.0	437.2	435.4
75°	359.2	352.0	346.5	334.7	332.0
77.5°	255.8	256.7	252.2	245.8	247.6
80°	185.1	174.2	170.5	166.9	166.0
82.5°	113.4	107.0	104.3	103.4	105.2
85°	58.1	55.3	56.2	53.5	56.2
87.5°	20.0	20.0	20.9	20.0	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)