

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: P412596

Luminaire Tested: **24PD-90-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412596
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-90-PB1-L830
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

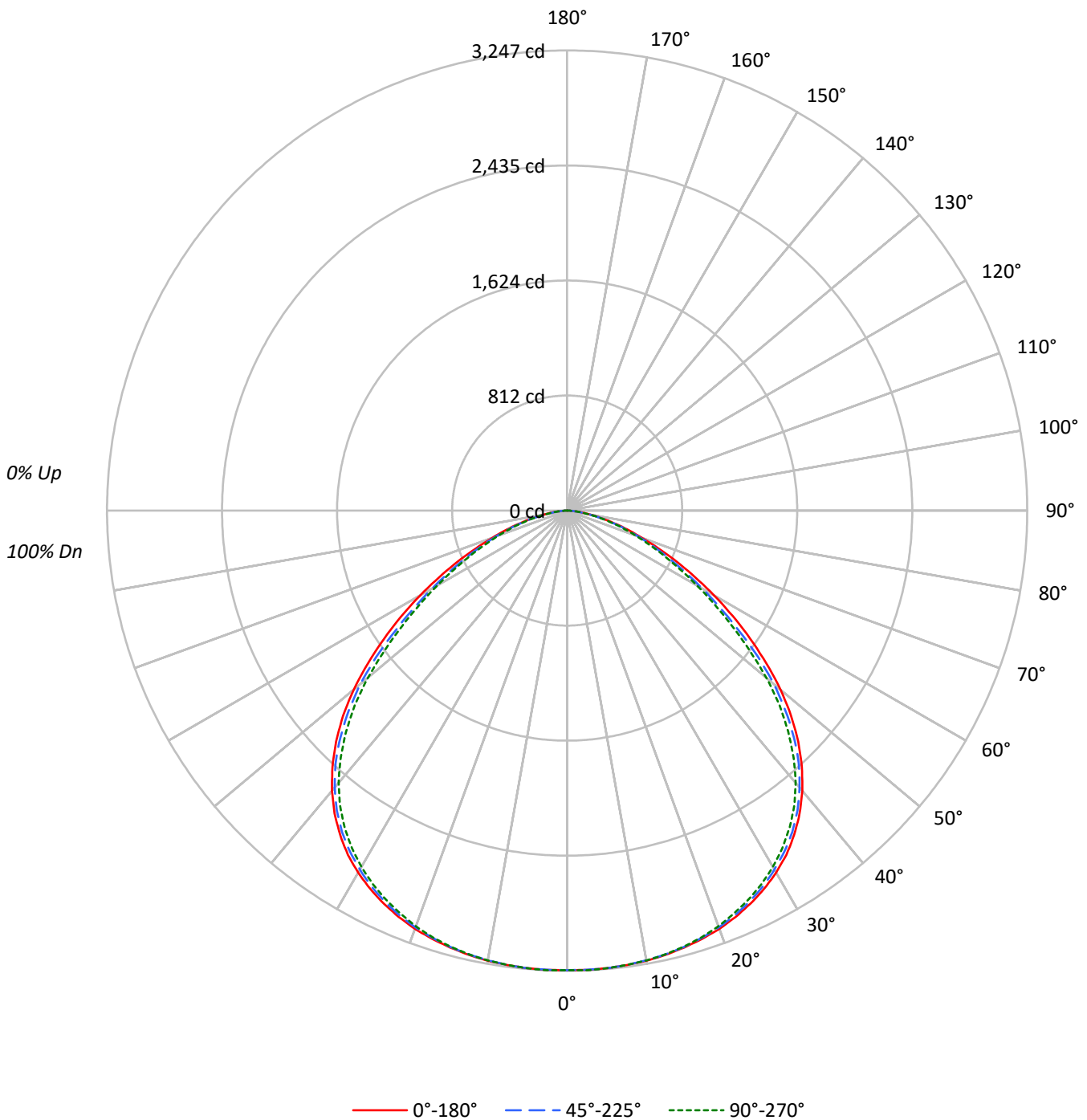
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8628.0 lumens
Efficiency: N/A
Efficacy: 125.6 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): 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	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°	4363	4363	4363
5°	4377	4377	4377
10°	4407	4402	4403
15°	4446	4440	4436
20°	4496	4482	4469
25°	4543	4520	4495
30°	4582	4545	4510
35°	4588	4548	4492
40°	4534	4482	4406
45°	4387	4307	4196
50°	4114	3986	3841
55°	3697	3478	3334
60°	3219	2962	2849
65°	2709	2506	2397
70°	2208	2096	2011
75°	1769	1707	1635
80°	1358	1252	1219
85°	849	823	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	3.6
10°-20°	901.1	10.4
20°-30°	1403.8	16.3
30°-40°	1726.9	20.0
40°-50°	1734.6	20.1
50°-60°	1336.9	15.5
60°-70°	793.7	9.2
70°-80°	353.4	4.1
80°-90°	69.0	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°	2613.6	30.3
0°-40°	4340.5	50.3
0°-60°	7412.0	85.9
0°-90°	8628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3242	3242	3242	3242	3242	
5°	3241	3242	3241	3237	3241	309
15°	3192	3192	3188	3182	3185	903
25°	3060	3060	3045	3031	3028	1411
35°	2793	2789	2769	2746	2735	1744
45°	2306	2300	2264	2226	2205	1770
55°	1576	1546	1482	1438	1421	1409
65°	851	814	787	757	753	850
75°	340	333	328	317	314	368
85°	55	52	53	51	53	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3242.5	3242.5	3242.5	3242.5	3242.5
2.5°	3244.2	3243.4	3243.4	3239.9	3246.8
5°	3240.8	3241.7	3240.8	3237.4	3240.8
7.5°	3233.9	3234.8	3233.1	3229.6	3233.1
10°	3225.3	3225.3	3221.9	3220.2	3222.7
12.5°	3210.7	3210.7	3207.3	3204.7	3207.3
15°	3191.8	3191.8	3187.5	3182.4	3184.9
17.5°	3168.6	3168.6	3161.7	3154.9	3156.6
20°	3140.2	3139.4	3129.9	3120.5	3121.3
22.5°	3104.1	3103.3	3091.3	3080.1	3076.6
25°	3060.3	3059.5	3044.9	3031.1	3027.7
27.5°	3009.6	3006.2	2989.8	2974.4	2970.9
30°	2949.5	2946.9	2925.4	2909.9	2903.1
32.5°	2879.8	2873.0	2853.2	2834.3	2824.8
35°	2793.0	2788.7	2769.0	2745.8	2734.6
37.5°	2695.1	2690.8	2669.3	2643.5	2630.6
40°	2581.6	2578.2	2551.6	2524.9	2508.6
42.5°	2451.0	2448.4	2420.1	2383.1	2365.9
45°	2305.8	2299.8	2263.7	2225.8	2205.2
47.5°	2144.2	2133.9	2090.1	2054.0	2031.6
50°	1965.4	1951.7	1904.4	1858.0	1834.8
52.5°	1772.1	1748.0	1699.0	1645.7	1623.4
55°	1576.1	1546.1	1482.5	1437.8	1421.4
57.5°	1384.5	1340.7	1280.5	1248.7	1232.4
60°	1196.3	1148.2	1100.9	1070.0	1058.8
62.5°	1016.7	976.3	935.9	904.9	898.1
65°	850.8	813.9	787.2	757.1	752.8
67.5°	696.1	678.9	654.9	629.1	625.6
70°	561.2	554.3	532.8	517.4	511.3
72.5°	447.7	440.9	425.4	414.2	412.5
75°	340.3	333.4	328.3	317.1	314.5
77.5°	242.4	243.2	238.9	232.9	234.6
80°	175.3	165.0	161.6	158.1	157.3
82.5°	107.4	101.4	98.8	98.0	99.7
85°	55.0	52.4	53.3	50.7	53.3
87.5°	18.9	18.9	19.8	18.9	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)