

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: P412821

Luminaire Tested: **24PD-100-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412821
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-100-PP3-L830
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

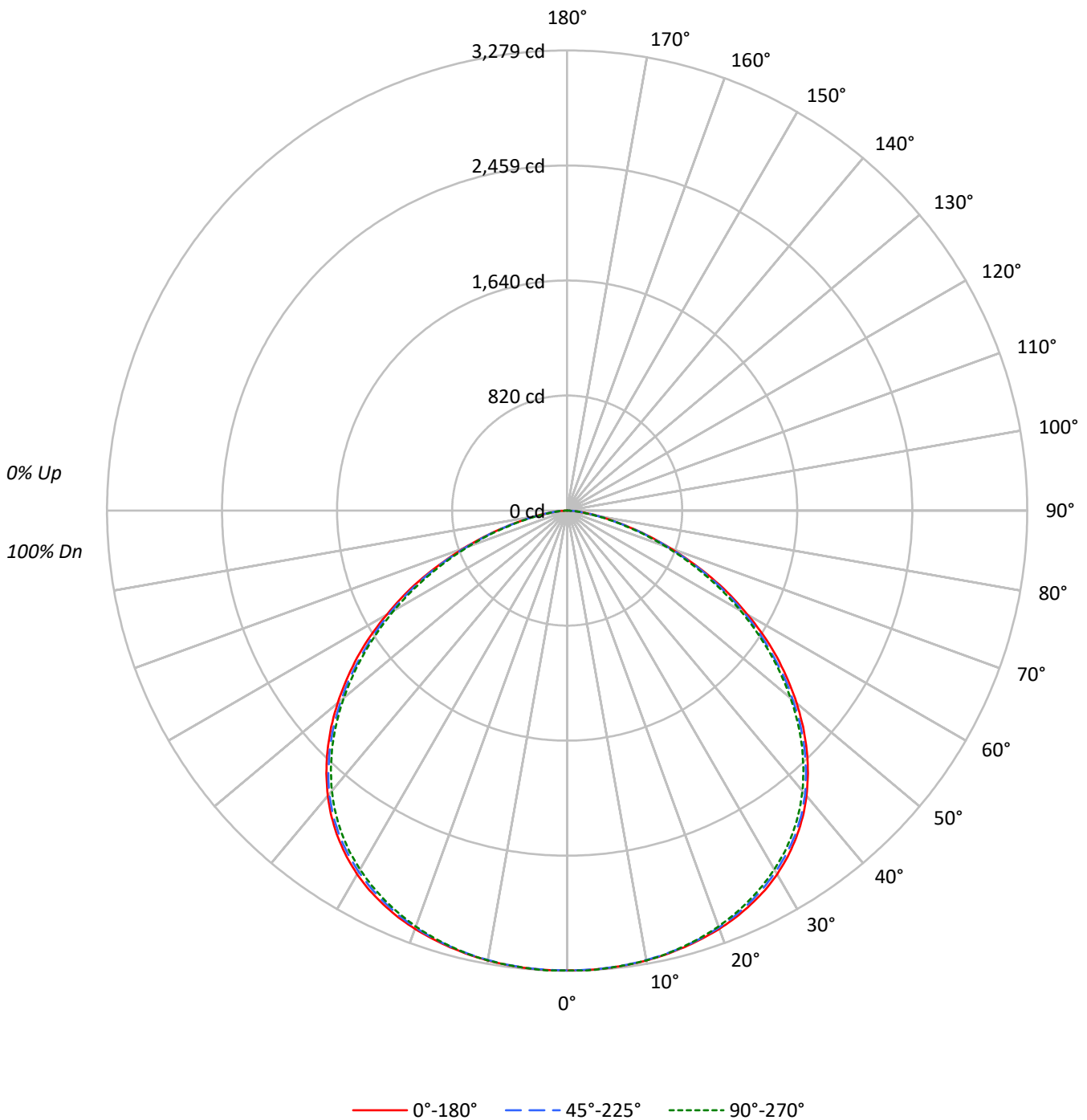
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9534.0 lumens
Efficiency: N/A
Efficacy: 123.2 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): 77.4
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°	4409	4409	4409
5°	4420	4419	4422
10°	4448	4443	4447
15°	4487	4480	4478
20°	4542	4526	4516
25°	4598	4574	4553
30°	4649	4617	4587
35°	4675	4646	4604
40°	4662	4634	4582
45°	4596	4550	4500
50°	4469	4397	4352
55°	4285	4182	4128
60°	3992	3923	3843
65°	3619	3546	3443
70°	3089	3032	2935
75°	2412	2387	2273
80°	1779	1705	1609
85°	1074	1074	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	3.3
10°-20°	909.6	9.5
20°-30°	1421.8	14.9
30°-40°	1767.0	18.5
40°-50°	1841.1	19.3
50°-60°	1597.6	16.8
60°-70°	1098.5	11.5
70°-80°	495.7	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°	2643.2	27.7
0°-40°	4410.2	46.3
0°-60°	7848.9	82.3
0°-90°	9534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3277	3277	3277	3277	3277	
5°	3273	3274	3272	3269	3274	312
15°	3221	3221	3216	3214	3215	911
25°	3097	3096	3081	3069	3067	1429
35°	2846	2846	2829	2813	2803	1778
45°	2415	2416	2391	2373	2365	1859
55°	1826	1816	1783	1762	1760	1628
65°	1137	1132	1114	1087	1081	1122
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°	3276.6	3276.6	3276.6	3276.6	3276.6
2.5°	3277.5	3277.5	3275.6	3272.7	3279.4
5°	3272.7	3273.7	3271.8	3268.9	3273.7
7.5°	3266.1	3267.0	3264.2	3261.3	3265.1
10°	3255.6	3254.6	3251.8	3249.9	3254.6
12.5°	3240.4	3239.4	3236.5	3234.6	3238.4
15°	3221.3	3221.3	3216.5	3213.7	3214.6
17.5°	3198.4	3198.4	3191.8	3185.1	3187.0
20°	3171.8	3170.8	3161.3	3154.6	3153.7
22.5°	3138.4	3138.4	3125.1	3116.5	3113.6
25°	3097.4	3096.5	3081.2	3068.9	3066.9
27.5°	3050.8	3048.8	3030.7	3018.4	3013.6
30°	2992.6	2990.7	2971.7	2958.3	2952.6
32.5°	2924.0	2926.9	2905.0	2889.7	2884.0
35°	2845.9	2845.9	2828.8	2812.6	2803.0
37.5°	2756.3	2756.3	2740.2	2724.0	2712.5
40°	2654.4	2655.4	2638.2	2618.2	2608.7
42.5°	2540.1	2542.0	2519.1	2502.9	2492.4
45°	2415.3	2416.2	2391.4	2373.3	2364.8
47.5°	2280.0	2278.1	2250.4	2235.2	2226.6
50°	2135.1	2131.3	2100.8	2086.6	2078.9
52.5°	1983.7	1976.0	1949.4	1928.4	1921.7
55°	1826.5	1816.0	1782.6	1761.7	1759.8
57.5°	1662.6	1650.2	1622.6	1602.6	1594.9
60°	1483.5	1480.6	1457.7	1433.9	1428.2
62.5°	1315.8	1307.2	1287.2	1258.6	1255.7
65°	1136.6	1131.9	1113.8	1087.1	1081.4
67.5°	951.8	956.6	941.3	917.5	909.9
70°	785.1	787.9	770.8	748.9	746.0
72.5°	617.4	622.2	607.9	593.6	590.7
75°	464.0	465.9	459.2	446.8	437.3
77.5°	329.7	336.3	328.7	320.1	312.5
80°	229.6	219.1	220.1	216.3	207.7
82.5°	138.2	133.4	132.4	128.6	124.8
85°	69.6	68.6	69.6	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)