

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: P412941

Luminaire Tested: **24PD-90-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412941
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-L850
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

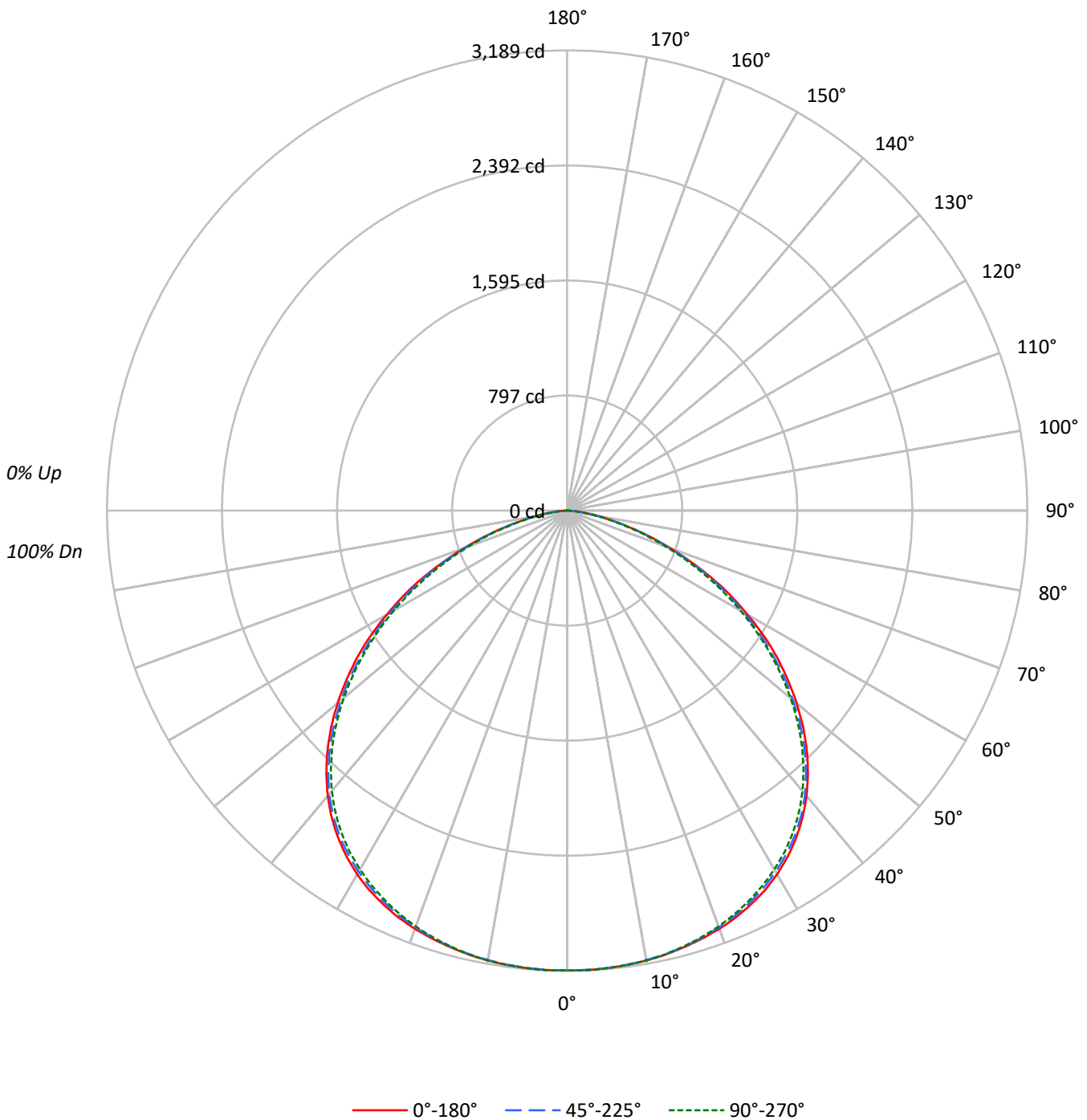
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9272.0 lumens
Efficiency: N/A
Efficacy: 135.0 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 (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°	4287	4287	4287
5°	4299	4298	4300
10°	4326	4321	4324
15°	4364	4357	4355
20°	4417	4402	4391
25°	4472	4449	4428
30°	4522	4490	4461
35°	4546	4519	4478
40°	4534	4506	4456
45°	4470	4425	4376
50°	4347	4277	4232
55°	4167	4067	4015
60°	3882	3815	3738
65°	3519	3449	3348
70°	3004	2949	2854
75°	2346	2322	2211
80°	1730	1658	1565
85°	1044	1044	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	3.3
10°-20°	884.6	9.5
20°-30°	1382.7	14.9
30°-40°	1718.5	18.5
40°-50°	1790.5	19.3
50°-60°	1553.7	16.8
60°-70°	1068.3	11.5
70°-80°	482.1	5.2
80°-90°	88.3	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°	2570.5	27.7
0°-40°	4289.0	46.3
0°-60°	7633.2	82.3
0°-90°	9272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3186	3186	3186	3186	3186	
5°	3183	3184	3182	3179	3184	303
15°	3133	3133	3128	3125	3126	886
25°	3012	3011	2997	2984	2983	1390
35°	2768	2768	2751	2735	2726	1729
45°	2349	2350	2326	2308	2300	1808
55°	1776	1766	1734	1713	1711	1583
65°	1105	1101	1083	1057	1052	1091
75°	451	453	447	435	425	491
85°	68	67	68	67	63	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3186.5	3186.5	3186.5	3186.5	3186.5
2.5°	3187.4	3187.4	3185.6	3182.8	3189.3
5°	3182.8	3183.7	3181.9	3179.1	3183.7
7.5°	3176.3	3177.3	3174.5	3171.7	3175.4
10°	3166.1	3165.2	3162.4	3160.6	3165.2
12.5°	3151.3	3150.4	3147.6	3145.7	3149.5
15°	3132.8	3132.8	3128.1	3125.4	3126.3
17.5°	3110.5	3110.5	3104.1	3097.6	3099.4
20°	3084.6	3083.7	3074.4	3067.9	3067.0
22.5°	3052.2	3052.2	3039.2	3030.9	3028.1
25°	3012.3	3011.4	2996.6	2984.5	2982.7
27.5°	2966.9	2965.1	2947.5	2935.4	2930.8
30°	2910.4	2908.5	2890.0	2877.0	2871.5
32.5°	2843.7	2846.5	2825.1	2810.3	2804.8
35°	2767.7	2767.7	2751.0	2735.3	2726.0
37.5°	2680.6	2680.6	2664.9	2649.1	2638.0
40°	2581.5	2582.4	2565.7	2546.2	2537.0
42.5°	2470.3	2472.1	2449.9	2434.1	2423.9
45°	2348.9	2349.8	2325.7	2308.1	2299.8
47.5°	2217.3	2215.5	2188.6	2173.8	2165.4
50°	2076.5	2072.8	2043.1	2029.2	2021.8
52.5°	1929.1	1921.7	1895.8	1875.4	1868.9
55°	1776.3	1766.1	1733.6	1713.3	1711.4
57.5°	1616.9	1604.8	1578.0	1558.5	1551.1
60°	1442.7	1439.9	1417.7	1394.5	1388.9
62.5°	1279.6	1271.3	1251.8	1224.0	1221.2
65°	1105.4	1100.8	1083.2	1057.2	1051.7
67.5°	925.7	930.3	915.5	892.3	884.9
70°	763.5	766.3	749.6	728.3	725.5
72.5°	600.4	605.1	591.2	577.3	574.5
75°	451.2	453.1	446.6	434.6	425.3
77.5°	320.6	327.1	319.7	311.3	303.9
80°	223.3	213.1	214.0	210.3	202.0
82.5°	134.4	129.7	128.8	125.1	121.4
85°	67.6	66.7	67.6	66.7	63.0
87.5°	22.2	24.1	25.0	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)