

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: P412940

Luminaire Tested: **24PD-90-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412940
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-L840
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

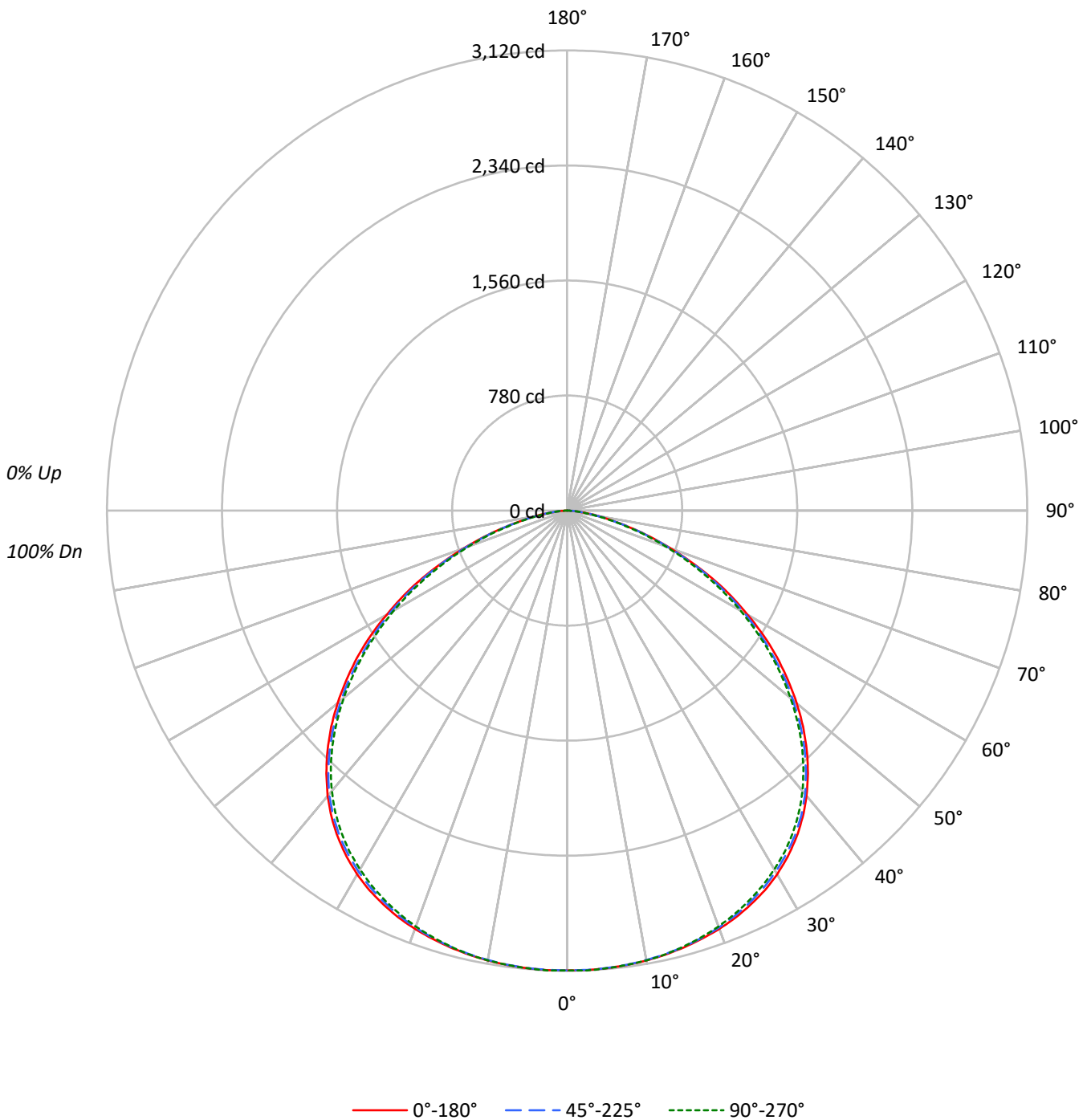
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9072.0 lumens
Efficiency: N/A
Efficacy: 132.1 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°	4195	4195	4195
5°	4206	4205	4207
10°	4232	4227	4231
15°	4270	4263	4261
20°	4321	4307	4297
25°	4376	4353	4332
30°	4424	4393	4365
35°	4448	4421	4381
40°	4436	4409	4360
45°	4373	4330	4282
50°	4253	4184	4141
55°	4077	3979	3928
60°	3799	3733	3657
65°	3443	3374	3276
70°	2939	2885	2793
75°	2295	2272	2163
80°	1693	1623	1531
85°	1022	1022	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	3.3
10°-20°	865.6	9.5
20°-30°	1352.9	14.9
30°-40°	1681.4	18.5
40°-50°	1751.9	19.3
50°-60°	1520.2	16.8
60°-70°	1045.3	11.5
70°-80°	471.7	5.2
80°-90°	86.5	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°	2515.1	27.7
0°-40°	4196.5	46.3
0°-60°	7468.6	82.3
0°-90°	9072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3118	3118	3118	3118	3118	
5°	3114	3115	3113	3110	3115	297
15°	3065	3065	3061	3058	3059	867
25°	2947	2946	2932	2920	2918	1360
35°	2708	2708	2692	2676	2667	1692
45°	2298	2299	2276	2258	2250	1769
55°	1738	1728	1696	1676	1674	1549
65°	1082	1077	1060	1034	1029	1067
75°	442	443	437	425	416	481
85°	66	65	66	65	62	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3117.8	3117.8	3117.8	3117.8	3117.8
2.5°	3118.7	3118.7	3116.9	3114.2	3120.5
5°	3114.2	3115.1	3113.2	3110.5	3115.1
7.5°	3107.8	3108.7	3106.0	3103.3	3106.9
10°	3097.8	3096.9	3094.2	3092.4	3096.9
12.5°	3083.3	3082.4	3079.7	3077.9	3081.5
15°	3065.2	3065.2	3060.7	3057.9	3058.9
17.5°	3043.4	3043.4	3037.1	3030.7	3032.6
20°	3018.1	3017.1	3008.1	3001.7	3000.8
22.5°	2986.3	2986.3	2973.6	2965.5	2962.8
25°	2947.3	2946.4	2931.9	2920.1	2918.3
27.5°	2902.9	2901.1	2883.9	2872.1	2867.6
30°	2847.6	2845.8	2827.7	2815.0	2809.5
32.5°	2782.3	2785.1	2764.2	2749.7	2744.3
35°	2708.0	2708.0	2691.7	2676.3	2667.2
37.5°	2622.8	2622.8	2607.4	2592.0	2581.1
40°	2525.8	2526.7	2510.4	2491.3	2482.3
42.5°	2417.0	2418.8	2397.0	2381.6	2371.7
45°	2298.2	2299.1	2275.6	2258.3	2250.2
47.5°	2169.5	2167.7	2141.4	2126.9	2118.7
50°	2031.7	2028.1	1999.0	1985.4	1978.2
52.5°	1887.5	1880.3	1854.9	1834.9	1828.6
55°	1737.9	1728.0	1696.2	1676.3	1674.5
57.5°	1582.0	1570.2	1543.9	1524.9	1517.6
60°	1411.6	1408.8	1387.1	1364.4	1359.0
62.5°	1252.0	1243.8	1224.8	1197.6	1194.9
65°	1081.6	1077.0	1059.8	1034.4	1029.0
67.5°	905.7	910.2	895.7	873.1	865.8
70°	747.0	749.8	733.4	712.6	709.9
72.5°	587.5	592.0	578.4	564.8	562.1
75°	441.5	443.3	437.0	425.2	416.1
77.5°	313.7	320.0	312.8	304.6	297.4
80°	218.5	208.5	209.4	205.8	197.6
82.5°	131.5	126.9	126.0	122.4	118.8
85°	66.2	65.3	66.2	65.3	61.6
87.5°	21.8	23.6	24.5	24.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)