

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: P412949

Luminaire Tested: **24PD-95-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412949
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-95-PP3-L840
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

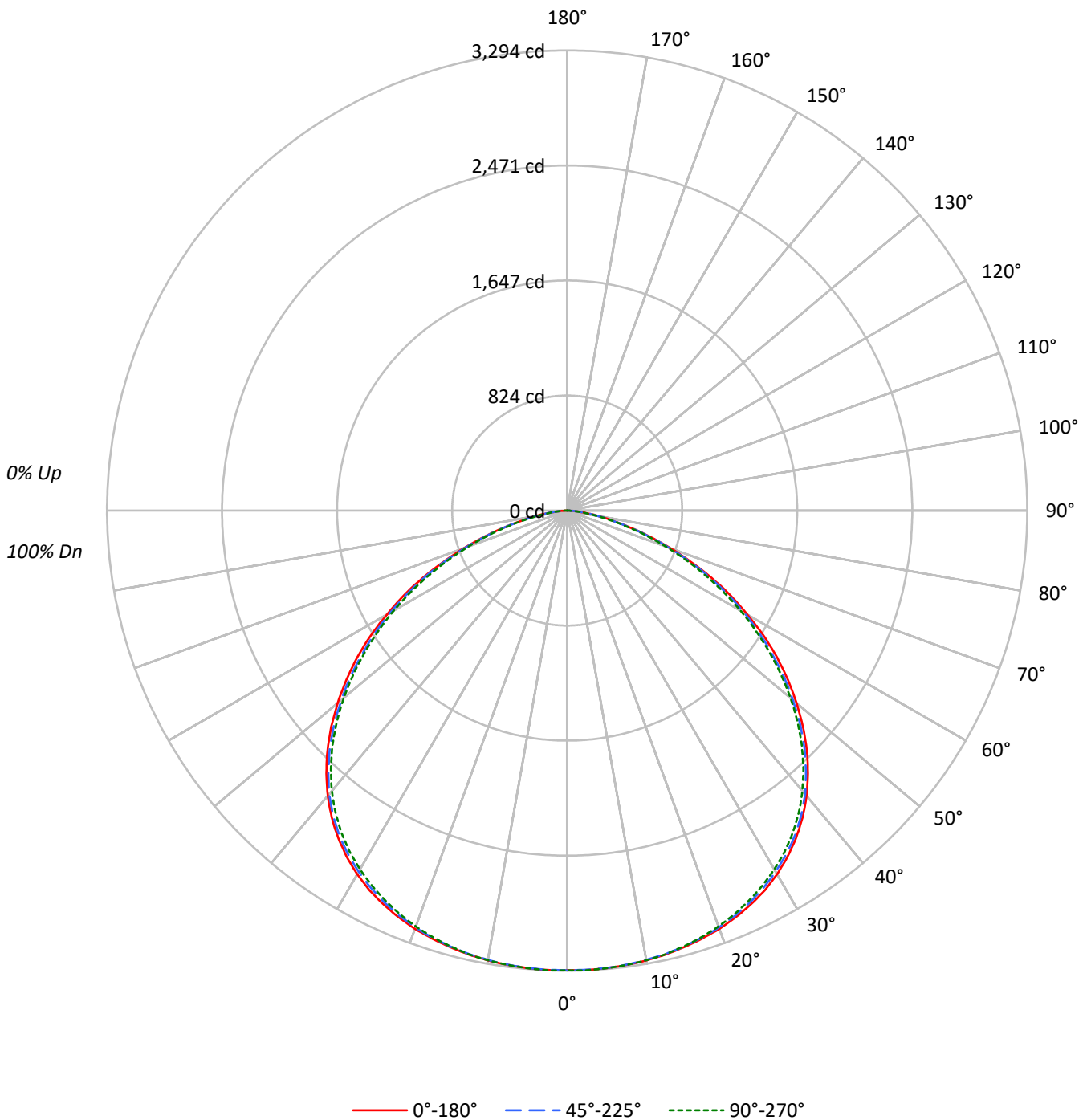
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9576.0 lumens
Efficiency: N/A
Efficacy: 131.2 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): 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	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°	4428	4428	4428
5°	4440	4438	4441
10°	4467	4462	4466
15°	4507	4500	4498
20°	4561	4546	4535
25°	4619	4594	4573
30°	4670	4637	4607
35°	4695	4667	4624
40°	4683	4654	4602
45°	4616	4571	4520
50°	4489	4417	4371
55°	4303	4200	4146
60°	4010	3940	3860
65°	3635	3562	3458
70°	3102	3046	2948
75°	2423	2398	2283
80°	1787	1713	1616
85°	1079	1079	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	3.3
10°-20°	913.7	9.5
20°-30°	1428.1	14.9
30°-40°	1774.8	18.5
40°-50°	1849.2	19.3
50°-60°	1604.6	16.8
60°-70°	1103.4	11.5
70°-80°	497.9	5.2
80°-90°	91.2	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°	2654.8	27.7
0°-40°	4429.6	46.3
0°-60°	7883.5	82.3
0°-90°	9576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3287	3288	3286	3283	3288	313
15°	3236	3236	3231	3228	3229	915
25°	3111	3110	3095	3082	3080	1435
35°	2858	2858	2841	2825	2815	1786
45°	2426	2427	2402	2384	2375	1867
55°	1834	1824	1790	1769	1768	1635
65°	1142	1137	1119	1092	1086	1127
75°	466	468	461	449	439	507
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°	3291.0	3291.0	3291.0	3291.0	3291.0
2.5°	3291.9	3291.9	3290.0	3287.2	3293.9
5°	3287.2	3288.1	3286.2	3283.3	3288.1
7.5°	3280.5	3281.4	3278.6	3275.7	3279.5
10°	3269.9	3269.0	3266.1	3264.2	3269.0
12.5°	3254.6	3253.7	3250.8	3248.9	3252.7
15°	3235.5	3235.5	3230.7	3227.8	3228.8
17.5°	3212.5	3212.5	3205.8	3199.1	3201.0
20°	3185.7	3184.8	3175.2	3168.5	3167.5
22.5°	3152.2	3152.2	3138.8	3130.2	3127.4
25°	3111.1	3110.1	3094.8	3082.4	3080.5
27.5°	3064.2	3062.3	3044.1	3031.7	3026.9
30°	3005.8	3003.9	2984.8	2971.4	2965.6
32.5°	2936.9	2939.8	2917.8	2902.5	2896.7
35°	2858.4	2858.4	2841.2	2825.0	2815.4
37.5°	2768.5	2768.5	2752.2	2736.0	2724.5
40°	2666.1	2667.1	2649.8	2629.7	2620.2
42.5°	2551.3	2553.2	2530.2	2513.9	2503.4
45°	2425.9	2426.9	2402.0	2383.8	2375.2
47.5°	2290.0	2288.1	2260.3	2245.0	2236.4
50°	2144.6	2140.7	2110.1	2095.7	2088.1
52.5°	1992.4	1984.7	1957.9	1936.9	1930.2
55°	1834.5	1824.0	1790.5	1769.4	1767.5
57.5°	1669.9	1657.5	1629.7	1609.6	1602.0
60°	1490.0	1487.1	1464.2	1440.2	1434.5
62.5°	1321.6	1313.0	1292.9	1264.1	1261.3
65°	1141.7	1136.9	1118.7	1091.9	1086.2
67.5°	956.0	960.8	945.5	921.6	913.9
70°	788.5	791.4	774.2	752.2	749.3
72.5°	620.1	624.9	610.5	596.2	593.3
75°	466.0	468.0	461.3	448.8	439.2
77.5°	331.1	337.8	330.2	321.5	313.9
80°	230.6	220.1	221.1	217.2	208.6
82.5°	138.8	134.0	133.0	129.2	125.4
85°	69.9	68.9	69.9	68.9	65.1
87.5°	23.0	24.9	25.8	25.8	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)