

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: P412607

Luminaire Tested: **24PD-95-PB1-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412607
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-95-PB1-L840
Description: 9500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

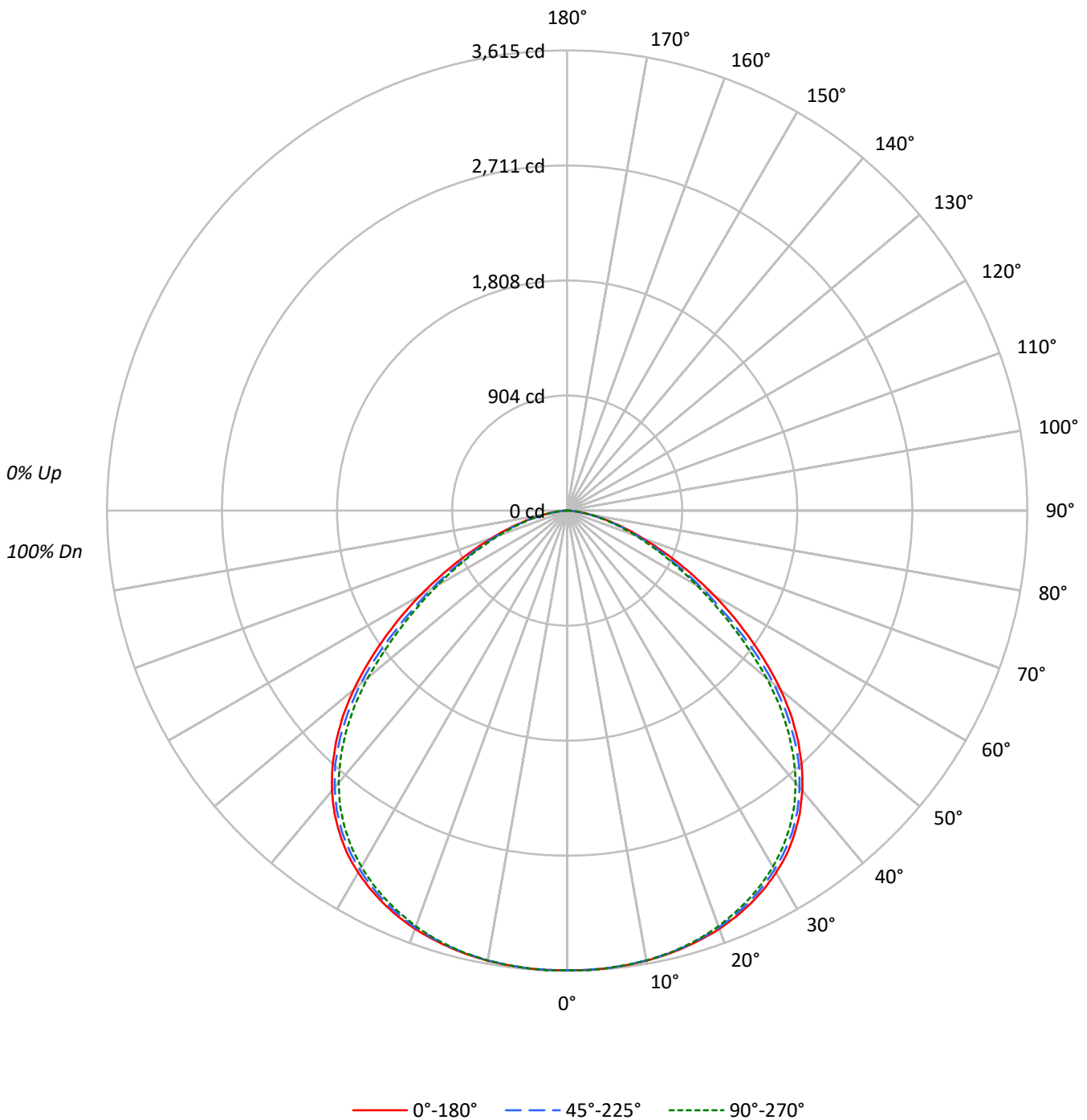
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9607.0 lumens
Efficiency: N/A
Efficacy: 131.6 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): 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	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°	4858	4858	4858
5°	4874	4874	4874
10°	4907	4901	4903
15°	4951	4944	4940
20°	5007	4990	4976
25°	5059	5033	5005
30°	5102	5061	5022
35°	5108	5064	5001
40°	5049	4990	4906
45°	4885	4796	4672
50°	4581	4439	4276
55°	4117	3872	3713
60°	3584	3299	3172
65°	3016	2791	2669
70°	2458	2334	2240
75°	1970	1900	1821
80°	1512	1394	1357
85°	945	915	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	3.6
10°-20°	1003.3	10.4
20°-30°	1563.1	16.3
30°-40°	1922.9	20.0
40°-50°	1931.4	20.1
50°-60°	1488.6	15.5
60°-70°	883.7	9.2
70°-80°	393.4	4.1
80°-90°	76.8	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°	2910.1	30.3
0°-40°	4833.0	50.3
0°-60°	8253.0	85.9
0°-90°	9607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3610	3610	3610	3610	3610	
5°	3608	3610	3608	3605	3608	344
15°	3554	3554	3549	3543	3546	1005
25°	3408	3407	3390	3375	3371	1572
35°	3110	3105	3083	3057	3045	1942
45°	2567	2561	2520	2478	2455	1971
55°	1755	1722	1651	1601	1583	1569
65°	947	906	876	843	838	947
75°	379	371	366	353	350	410
85°	61	58	59	56	59	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3610.4	3610.4	3610.4	3610.4	3610.4
2.5°	3612.3	3611.4	3611.4	3607.6	3615.2
5°	3608.5	3609.5	3608.5	3604.7	3608.5
7.5°	3600.9	3601.8	3599.9	3596.1	3599.9
10°	3591.3	3591.3	3587.5	3585.6	3588.4
12.5°	3575.0	3575.0	3571.2	3568.3	3571.2
15°	3554.0	3554.0	3549.2	3543.4	3546.3
17.5°	3528.1	3528.1	3520.5	3512.8	3514.7
20°	3496.6	3495.6	3485.1	3474.6	3475.5
22.5°	3456.4	3455.4	3442.0	3429.6	3425.7
25°	3407.6	3406.6	3390.3	3375.0	3371.2
27.5°	3351.1	3347.3	3329.1	3311.9	3308.0
30°	3284.1	3281.3	3257.3	3240.1	3232.5
32.5°	3206.6	3199.0	3177.0	3155.9	3145.4
35°	3110.0	3105.2	3083.2	3057.3	3044.9
37.5°	3000.9	2996.1	2972.2	2943.5	2929.1
40°	2874.6	2870.7	2841.1	2811.4	2793.2
42.5°	2729.1	2726.2	2694.7	2653.5	2634.4
45°	2567.4	2560.7	2520.5	2478.4	2455.4
47.5°	2387.5	2376.0	2327.2	2287.0	2262.1
50°	2188.5	2173.1	2120.5	2068.8	2043.0
52.5°	1973.2	1946.4	1891.8	1832.5	1807.6
55°	1755.0	1721.5	1650.7	1600.9	1582.7
57.5°	1541.6	1492.8	1425.8	1390.4	1372.2
60°	1332.0	1278.4	1225.8	1191.4	1178.9
62.5°	1132.0	1087.1	1042.1	1007.6	1000.0
65°	947.3	906.2	876.5	843.0	838.3
67.5°	775.1	756.0	729.2	700.5	696.6
70°	624.9	617.2	593.3	576.1	569.4
72.5°	498.6	490.9	473.7	461.2	459.3
75°	378.9	371.3	365.5	353.1	350.2
77.5°	269.8	270.8	266.0	259.3	261.2
80°	195.2	183.7	179.9	176.1	175.1
82.5°	119.6	112.9	110.0	109.1	111.0
85°	61.2	58.4	59.3	56.5	59.3
87.5°	21.1	21.1	22.0	21.1	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)