

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: P219123

Luminaire Tested: **24GR-LD5-90-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-A-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8044.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

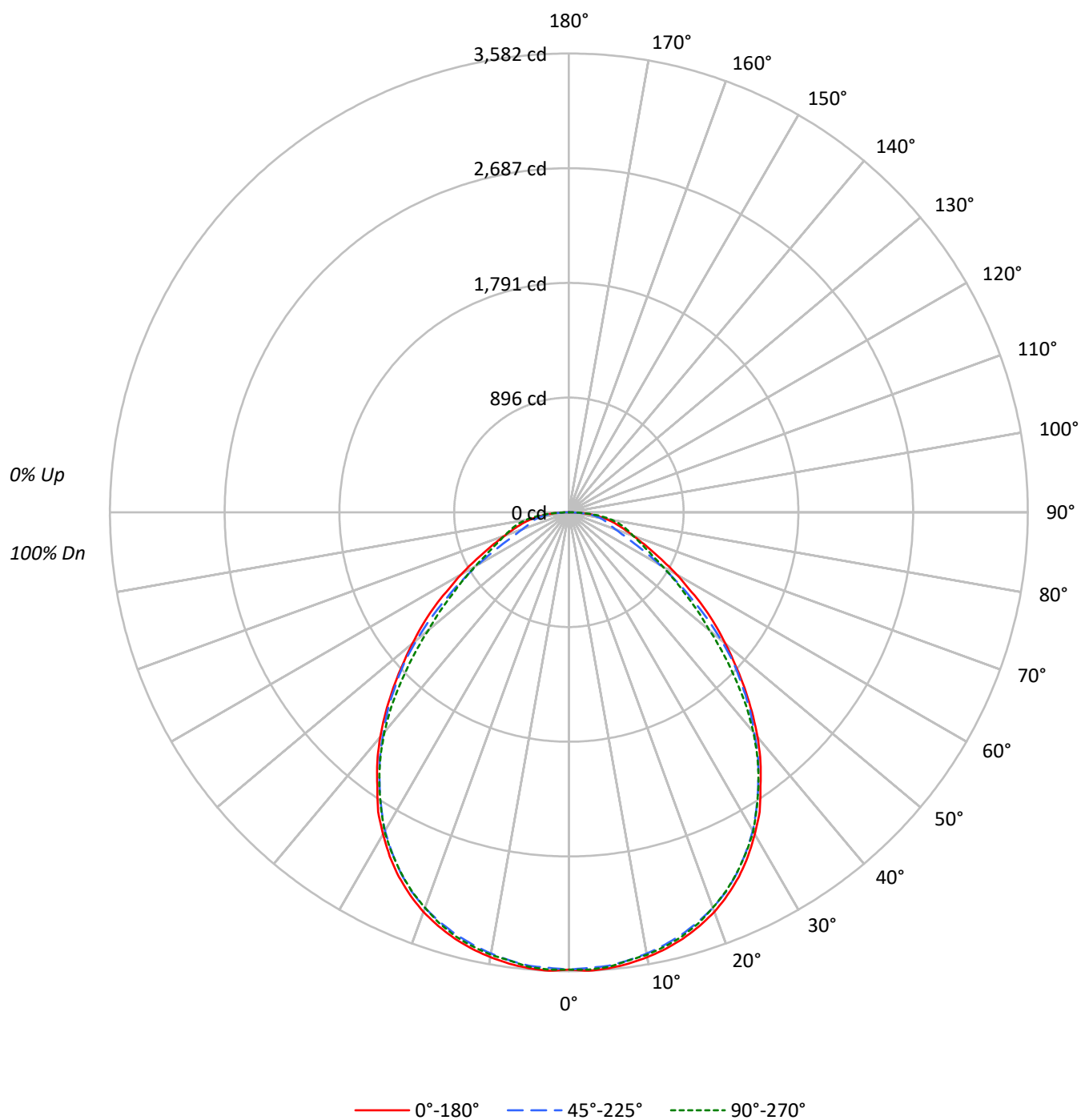
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	98	107	103	99	96		99	96	93			95	93	90			91
2	101	93	87	82	98	91	86	81		88	83	79			85	81	77			82
3	93	83	75	69	90	81	74	69		79	73	68			76	71	67			73
4	86	74	66	60	83	73	65	60		71	64	59			68	63	58			66
5	79	67	59	53	77	66	58	52		64	57	52			62	56	51			60
6	73	61	53	46	72	60	52	46		58	51	46			57	50	45			55
7	68	56	47	42	67	55	47	41		53	46	41			52	46	41			51
8	64	51	43	37	62	50	43	37		49	42	37			48	41	37			47
9	60	47	39	34	58	46	39	34		45	38	34			44	38	33			43
10	56	44	36	31	55	43	36	31		42	35	31			41	35	31			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5467	5467	5467
5°	5494	5463	5476
10°	5484	5439	5455
15°	5463	5408	5431
20°	5411	5356	5354
25°	5305	5249	5244
30°	5130	5077	5088
35°	4873	4817	4824
40°	4582	4503	4475
45°	4200	4143	3979
50°	3796	3693	3415
55°	3408	3103	2944
60°	2985	2497	2589
65°	2604	1964	2383
70°	2382	1714	2382
75°	2383	1824	2626
80°	2587	2149	2993
85°	2840	2423	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	4.2
10°-20°	964.6	12.0
20°-30°	1430.3	17.8
30°-40°	1613.6	20.1
40°-50°	1461.4	18.2
50°-60°	1054.3	13.1
60°-70°	629.5	7.8
70°-80°	389.1	4.8
80°-90°	163.9	2.0
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°	2733.0	34.0
0°-40°	4346.5	54.0
0°-60°	6862.3	85.3
0°-90°	8044.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8044.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3569	3569	3569	3569	3569	
5°	3573	3568	3553	3550	3562	340
15°	3445	3424	3410	3412	3425	971
25°	3139	3122	3106	3095	3103	1442
35°	2606	2602	2576	2578	2580	1631
45°	1939	1926	1913	1866	1837	1494
55°	1276	1237	1162	1105	1102	1139
65°	718	633	542	615	658	723
75°	403	349	308	384	444	430
85°	162	142	138	180	183	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3569.4	3569.4	3569.4	3569.4	3569.4
2.5°	3581.8	3571.9	3559.5	3566.9	3573.1
5°	3573.1	3568.1	3553.3	3549.6	3561.9
7.5°	3554.5	3542.1	3528.4	3534.6	3529.6
10°	3525.9	3514.7	3497.4	3498.6	3507.3
12.5°	3491.1	3477.4	3458.8	3463.7	3471.2
15°	3445.2	3424.0	3410.3	3411.5	3425.2
17.5°	3386.7	3370.6	3353.1	3356.9	3363.1
20°	3319.6	3310.9	3286.1	3278.6	3284.8
22.5°	3235.1	3218.9	3205.2	3201.5	3202.8
25°	3139.4	3122.0	3105.8	3094.6	3103.3
27.5°	3027.5	3012.6	2991.5	2987.7	2995.2
30°	2900.8	2889.6	2870.9	2866.0	2877.1
32.5°	2771.5	2752.9	2726.8	2726.8	2729.3
35°	2606.2	2602.4	2576.4	2577.6	2580.1
37.5°	2457.1	2439.6	2424.8	2409.9	2417.3
40°	2291.8	2271.9	2252.0	2242.1	2238.3
42.5°	2114.1	2099.2	2090.4	2054.4	2045.7
45°	1938.8	1926.4	1912.7	1865.5	1836.9
47.5°	1759.8	1757.3	1746.1	1662.9	1634.3
50°	1593.3	1589.6	1549.8	1461.6	1433.0
52.5°	1435.5	1410.6	1358.5	1271.4	1266.4
55°	1276.4	1236.6	1162.0	1104.8	1102.4
57.5°	1108.6	1061.4	985.6	954.5	970.7
60°	974.4	902.3	815.3	819.1	845.1
62.5°	835.1	754.4	668.6	705.9	737.0
65°	718.4	632.6	541.9	615.2	657.5
67.5°	616.4	536.9	449.9	548.1	589.1
70°	531.9	467.3	382.8	486.0	531.9
72.5°	464.8	405.1	339.3	436.2	489.7
75°	402.7	349.2	308.2	384.1	443.7
77.5°	349.2	297.0	278.4	339.3	397.7
80°	293.3	246.0	243.6	295.8	339.3
82.5°	228.7	196.3	196.3	247.3	273.4
85°	161.6	141.6	137.9	180.2	182.7
87.5°	83.2	79.6	72.1	94.4	94.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)