

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: P219105

Luminaire Tested: **24GR-LD5-64-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219105
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-LD5-64-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5557.1 lumens
Efficiency: N/A
Efficacy: 115.4 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

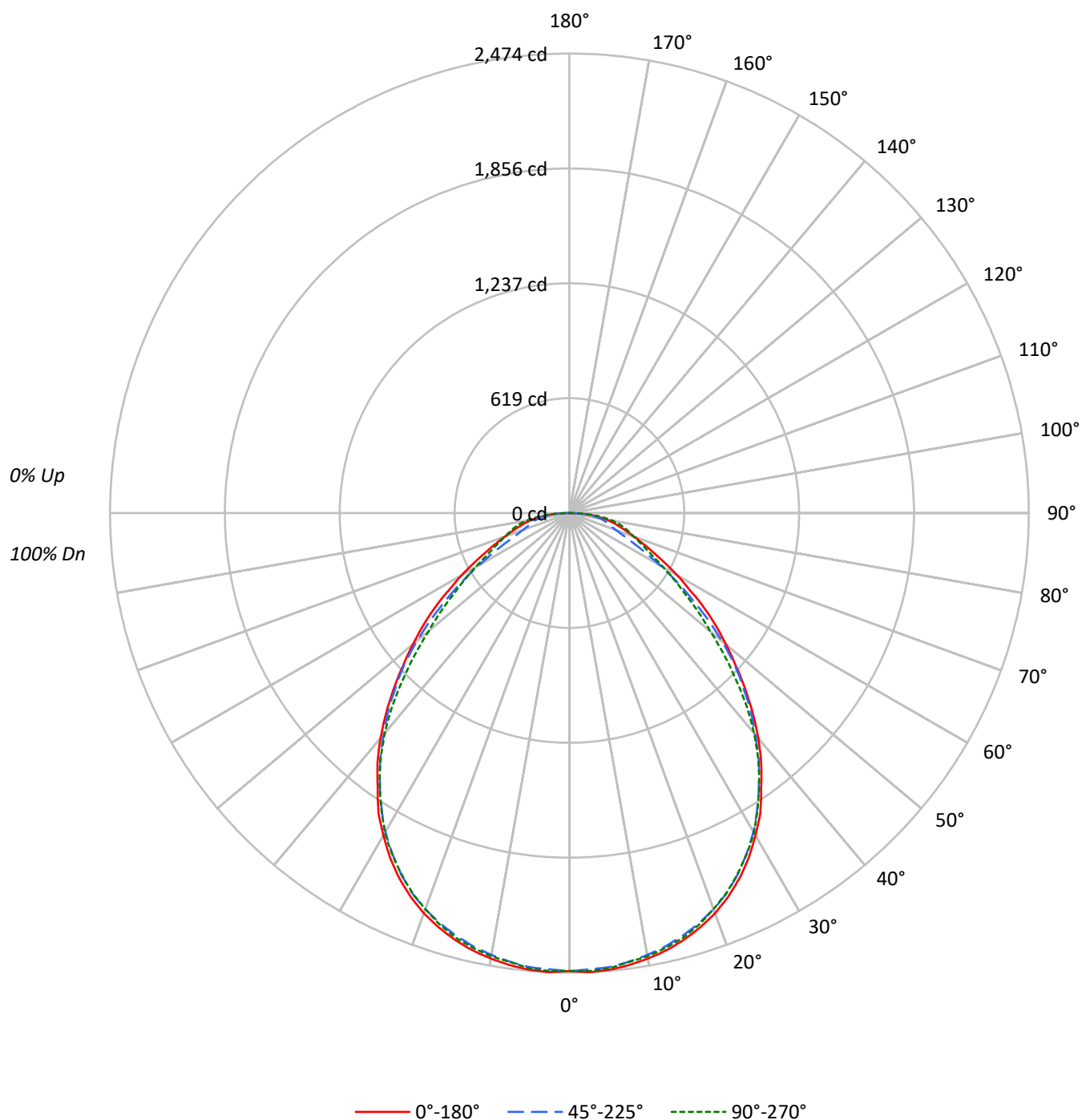
Input Watts (W): 48.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3776	3776	3776
5°	3795	3774	3783
10°	3788	3757	3768
15°	3773	3735	3752
20°	3737	3700	3698
25°	3665	3626	3623
30°	3544	3507	3515
35°	3366	3327	3332
40°	3165	3110	3091
45°	2901	2862	2748
50°	2622	2551	2358
55°	2354	2143	2033
60°	2062	1725	1788
65°	1798	1357	1646
70°	1646	1184	1646
75°	1646	1260	1814
80°	1787	1484	2067
85°	1961	1675	2218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	4.2
10°-20°	666.3	12.0
20°-30°	988.0	17.8
30°-40°	1114.6	20.1
40°-50°	1009.5	18.2
50°-60°	728.3	13.1
60°-70°	434.9	7.8
70°-80°	268.8	4.8
80°-90°	113.2	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°	1887.8	34.0
0°-40°	3002.4	54.0
0°-60°	4740.2	85.3
0°-90°	5557.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5557.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2468	2465	2454	2452	2460	235
15°	2380	2365	2356	2357	2366	671
25°	2169	2156	2145	2138	2144	996
35°	1800	1798	1780	1780	1782	1126
45°	1339	1331	1321	1289	1269	1032
55°	882	854	803	763	762	787
65°	496	437	374	425	454	499
75°	278	241	213	265	306	297
85°	112	98	95	124	126	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2465.6	2465.6	2465.6	2465.6	2465.6
2.5°	2474.2	2467.3	2458.7	2463.9	2468.2
5°	2468.2	2464.7	2454.5	2451.9	2460.5
7.5°	2455.3	2446.7	2437.3	2441.5	2438.1
10°	2435.6	2427.9	2415.8	2416.7	2422.7
12.5°	2411.5	2402.1	2389.2	2392.7	2397.8
15°	2379.7	2365.2	2355.7	2356.6	2366.1
17.5°	2339.5	2328.2	2316.2	2318.8	2323.1
20°	2293.0	2287.0	2269.8	2264.7	2269.0
22.5°	2234.6	2223.5	2214.1	2211.5	2212.4
25°	2168.6	2156.5	2145.4	2137.7	2143.7
27.5°	2091.3	2081.0	2066.4	2063.8	2069.0
30°	2003.7	1996.1	1983.1	1979.7	1987.5
32.5°	1914.5	1901.6	1883.5	1883.5	1885.3
35°	1800.3	1797.7	1779.6	1780.5	1782.3
37.5°	1697.3	1685.2	1674.9	1664.6	1669.8
40°	1583.0	1569.4	1555.6	1548.7	1546.1
42.5°	1460.3	1450.0	1444.0	1419.1	1413.1
45°	1339.3	1330.7	1321.2	1288.6	1268.9
47.5°	1215.7	1213.9	1206.2	1148.7	1129.0
50°	1100.6	1098.0	1070.6	1009.6	989.8
52.5°	991.6	974.4	938.3	878.2	874.8
55°	881.7	854.2	802.7	763.2	761.5
57.5°	765.8	733.1	680.8	659.3	670.5
60°	673.0	623.3	563.2	565.8	583.8
62.5°	576.9	521.1	461.9	487.6	509.1
65°	496.2	437.0	374.3	425.0	454.2
67.5°	425.8	370.9	310.8	378.6	406.9
70°	367.5	322.8	264.4	335.7	367.5
72.5°	321.0	279.9	234.3	301.3	338.2
75°	278.1	241.2	212.9	265.3	306.5
77.5°	241.2	205.2	192.3	234.3	274.7
80°	202.6	170.0	168.3	204.3	234.3
82.5°	157.9	135.7	135.7	170.8	188.9
85°	111.6	97.8	95.3	124.5	126.2
87.5°	57.5	54.9	49.8	65.3	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)