

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: P475721

Luminaire Tested: **24GR-LD5-56-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475721
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523.3 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

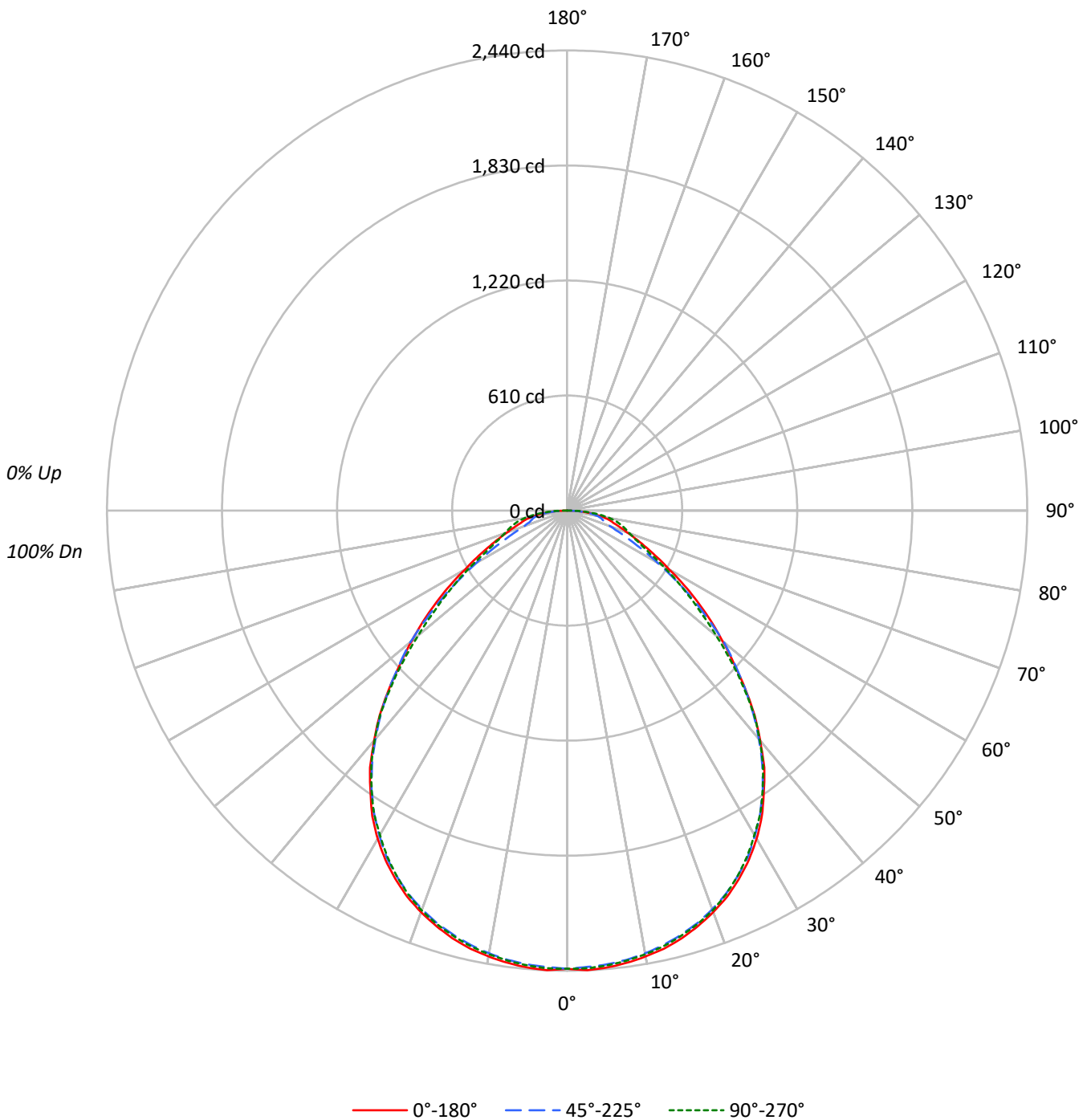
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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				100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56				56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3269	3269	3269
5°	3285	3263	3270
10°	3280	3257	3264
15°	3270	3244	3252
20°	3245	3221	3230
25°	3200	3176	3174
30°	3122	3093	3086
35°	2988	2969	2969
40°	2796	2780	2791
45°	2538	2534	2514
50°	2252	2269	2157
55°	1979	1892	1847
60°	1685	1494	1572
65°	1472	1162	1387
70°	1331	956	1384
75°	1331	1020	1547
80°	1467	1256	1770
85°	1511	1411	1931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	4.2
10°-20°	658.6	11.9
20°-30°	985.2	17.8
30°-40°	1127.4	20.4
40°-50°	1021.4	18.5
50°-60°	723.1	13.1
60°-70°	417.8	7.6
70°-80°	253.3	4.6
80°-90°	106.6	1.9
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°	1873.7	33.9
0°-40°	3001.1	54.3
0°-60°	4745.7	85.9
0°-90°	5523.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2432	2423	2416	2415	2421	231
15°	2348	2338	2329	2329	2335	662
25°	2155	2146	2139	2138	2138	991
35°	1819	1811	1808	1805	1808	1135
45°	1334	1331	1332	1322	1321	1028
55°	844	815	806	783	788	756
65°	462	414	365	418	436	465
75°	256	230	196	252	298	274
85°	98	88	91	117	125	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2439.6	2430.4	2422.2	2423.3	2429.3
5°	2432.0	2423.3	2415.7	2415.2	2421.1
7.5°	2419.0	2411.4	2402.7	2402.7	2407.6
10°	2400.5	2392.9	2384.2	2383.6	2389.1
12.5°	2378.7	2368.9	2359.7	2359.7	2365.7
15°	2347.7	2338.5	2329.2	2329.2	2334.7
17.5°	2309.7	2301.5	2293.9	2294.4	2298.8
20°	2266.2	2258.0	2249.8	2250.9	2255.8
22.5°	2216.1	2206.3	2199.8	2199.3	2202.5
25°	2155.2	2146.5	2139.4	2137.8	2137.8
27.5°	2087.2	2078.0	2073.1	2065.5	2067.7
30°	2009.5	1999.7	1991.0	1986.6	1986.1
32.5°	1921.9	1912.1	1904.5	1904.0	1906.1
35°	1819.1	1811.0	1807.7	1805.0	1807.7
37.5°	1717.4	1702.2	1699.5	1698.9	1706.0
40°	1591.8	1586.4	1582.6	1579.8	1589.1
42.5°	1471.1	1460.2	1461.3	1450.9	1467.3
45°	1334.0	1331.3	1331.8	1322.1	1321.0
47.5°	1198.1	1197.5	1205.7	1178.5	1176.9
50°	1075.7	1070.3	1083.9	1042.0	1030.6
52.5°	958.8	943.6	939.2	901.1	901.1
55°	843.5	815.2	806.5	782.6	787.5
57.5°	734.2	693.9	676.0	675.4	683.6
60°	626.0	580.3	555.3	574.8	584.1
62.5°	540.0	490.0	451.9	488.9	497.6
65°	462.3	414.4	364.9	417.7	435.6
67.5°	395.4	355.7	293.7	362.7	386.7
70°	338.3	302.9	243.1	319.8	351.9
72.5°	293.1	263.8	211.6	285.5	324.1
75°	256.1	229.5	196.3	252.3	297.5
77.5°	226.8	195.2	183.8	220.8	267.0
80°	189.3	160.4	162.1	189.8	228.4
82.5°	145.7	124.0	130.5	157.2	179.5
85°	97.9	88.1	91.4	116.9	125.1
87.5°	48.4	46.8	50.0	68.5	68.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)