

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: P293136

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5475.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

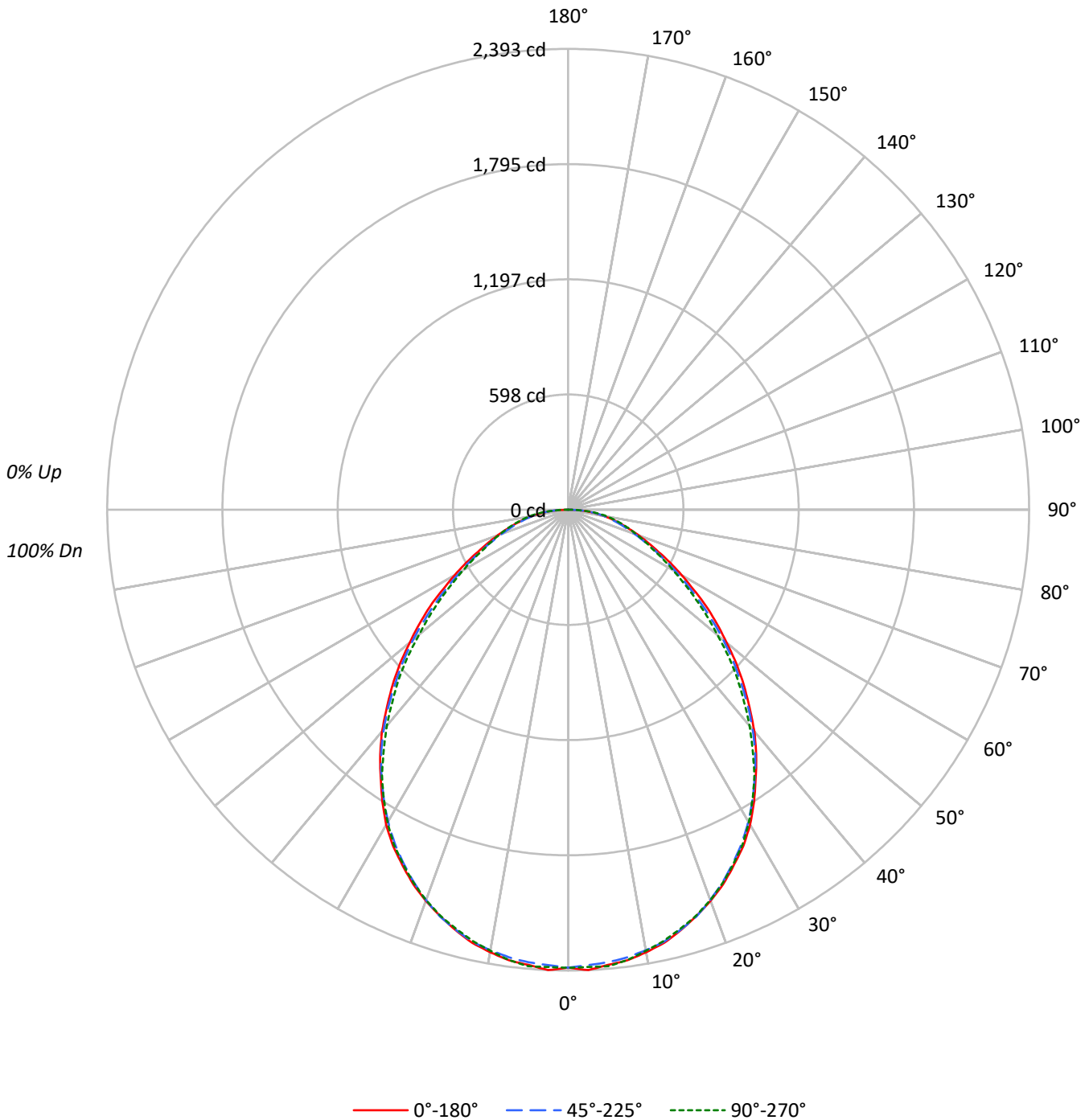
Input Watts (W): 46.035
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3200	3200	3200
5°	3205	3186	3214
10°	3187	3174	3177
15°	3148	3144	3137
20°	3095	3088	3088
25°	3023	3006	3013
30°	2935	2905	2914
35°	2788	2775	2767
40°	2640	2616	2571
45°	2454	2411	2364
50°	2248	2198	2116
55°	2053	1960	1894
60°	1829	1741	1696
65°	1647	1560	1539
70°	1528	1435	1493
75°	1462	1397	1514
80°	1461	1461	1619
85°	1516	1535	1709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	4.1
10°-20°	635.6	11.6
20°-30°	932.8	17.0
30°-40°	1054.6	19.3
40°-50°	974.7	17.8
50°-60°	751.0	13.7
60°-70°	497.3	9.1
70°-80°	296.0	5.4
80°-90°	108.4	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°	1793.0	32.7
0°-40°	2847.6	52.0
0°-60°	4573.3	83.5
0°-90°	5475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2378	2378	2378	2378	2378	
5°	2373	2373	2359	2360	2379	225
15°	2260	2255	2257	2256	2252	637
25°	2036	2030	2025	2022	2029	937
35°	1697	1695	1689	1682	1685	1062
45°	1290	1281	1267	1244	1242	993
55°	875	857	836	813	807	781
65°	517	509	490	486	483	519
75°	281	274	269	281	291	300
85°	98	93	99	110	111	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2378.2	2378.2	2378.2	2378.2	2378.2
2.5°	2392.9	2380.5	2366.9	2366.9	2377.1
5°	2372.6	2372.6	2359.0	2360.1	2379.3
7.5°	2360.1	2353.4	2344.3	2344.3	2359.0
10°	2333.0	2327.4	2322.9	2320.6	2325.1
12.5°	2303.7	2294.6	2298.0	2294.6	2293.5
15°	2259.6	2255.1	2257.4	2256.3	2251.7
17.5°	2212.2	2210.0	2214.5	2206.6	2210.0
20°	2161.4	2154.6	2156.9	2152.4	2156.9
22.5°	2103.8	2099.3	2093.6	2088.0	2097.0
25°	2036.0	2030.4	2024.8	2022.5	2029.3
27.5°	1968.3	1959.3	1951.4	1949.1	1959.3
30°	1889.2	1879.1	1870.0	1867.8	1875.7
32.5°	1795.5	1793.3	1782.0	1777.4	1780.8
35°	1697.3	1695.0	1689.4	1681.5	1684.8
37.5°	1603.5	1602.4	1594.5	1581.0	1571.9
40°	1503.0	1495.1	1489.5	1470.3	1463.5
42.5°	1392.4	1390.1	1379.9	1358.5	1350.6
45°	1289.6	1280.6	1267.0	1244.4	1242.2
47.5°	1183.5	1171.0	1158.6	1130.4	1129.3
50°	1073.9	1064.9	1050.2	1022.0	1010.7
52.5°	972.3	959.9	939.5	912.4	906.8
55°	875.2	857.1	835.6	813.1	807.4
57.5°	771.3	763.4	737.4	719.3	712.6
60°	679.8	673.0	647.1	630.1	630.1
62.5°	597.4	587.2	564.6	553.3	553.3
65°	517.2	509.3	490.1	485.6	483.3
67.5°	448.3	438.2	424.6	423.5	429.1
70°	388.5	376.0	364.7	376.0	379.4
72.5°	332.0	324.1	313.9	328.6	335.4
75°	281.2	274.4	268.8	281.2	291.3
77.5°	234.9	228.1	228.1	241.7	250.7
80°	188.6	184.1	188.6	199.9	208.9
82.5°	144.5	141.2	146.8	158.1	163.7
85°	98.2	92.6	99.4	109.5	110.7
87.5°	46.3	45.2	49.7	56.5	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)