

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: P293001

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293001
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-LD5-56-F1-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5504.0 lumens
Efficiency: N/A
Efficacy: 140.6 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

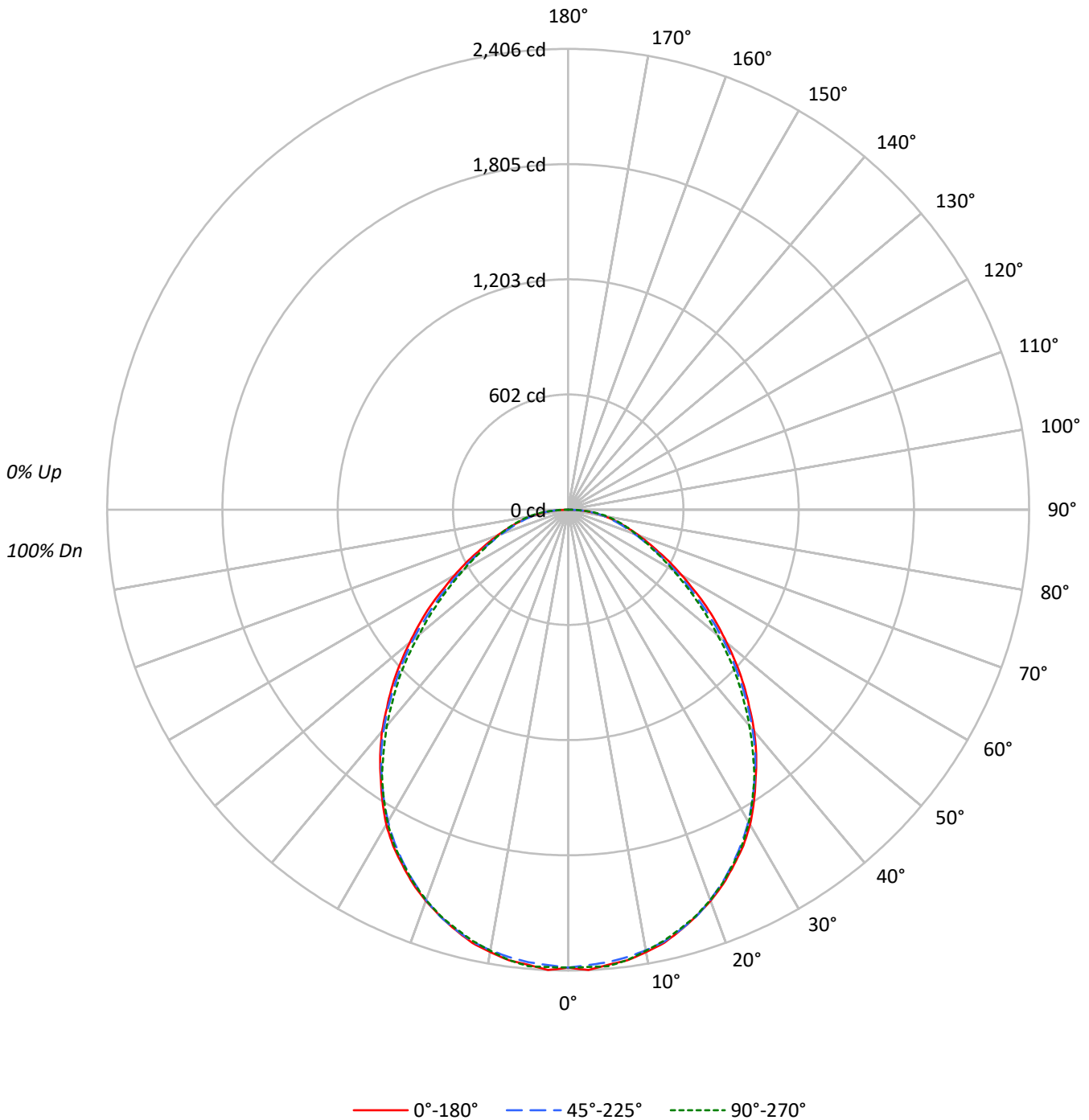
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3217	3217	3217
5°	3221	3203	3231
10°	3204	3190	3194
15°	3164	3161	3153
20°	3111	3105	3105
25°	3039	3022	3029
30°	2951	2921	2930
35°	2803	2790	2782
40°	2654	2630	2584
45°	2467	2424	2376
50°	2260	2210	2127
55°	2064	1971	1904
60°	1839	1750	1705
65°	1655	1569	1547
70°	1536	1443	1500
75°	1470	1405	1523
80°	1469	1469	1627
85°	1525	1542	1718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	4.1
10°-20°	639.0	11.6
20°-30°	937.8	17.0
30°-40°	1060.2	19.3
40°-50°	979.9	17.8
50°-60°	754.9	13.7
60°-70°	499.9	9.1
70°-80°	297.6	5.4
80°-90°	109.0	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°	1802.5	32.7
0°-40°	2862.7	52.0
0°-60°	4597.5	83.5
0°-90°	5504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2385	2385	2372	2373	2392	227
15°	2272	2267	2269	2268	2264	640
25°	2047	2041	2036	2033	2040	942
35°	1706	1704	1698	1690	1694	1068
45°	1296	1287	1274	1251	1249	999
55°	880	862	840	817	812	785
65°	520	512	493	488	486	521
75°	283	276	270	283	293	301
85°	99	93	100	110	111	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2390.8	2390.8	2390.8	2390.8	2390.8
2.5°	2405.6	2393.1	2379.5	2379.5	2389.7
5°	2385.1	2385.1	2371.5	2372.6	2391.9
7.5°	2372.6	2365.8	2356.8	2356.8	2371.5
10°	2345.4	2339.7	2335.2	2332.9	2337.5
12.5°	2315.9	2306.8	2310.2	2306.8	2305.7
15°	2271.6	2267.1	2269.3	2268.2	2263.7
17.5°	2223.9	2221.7	2226.2	2218.3	2221.7
20°	2172.8	2166.0	2168.3	2163.8	2168.3
22.5°	2114.9	2110.4	2104.7	2099.1	2108.1
25°	2046.8	2041.2	2035.5	2033.2	2040.0
27.5°	1978.7	1969.6	1961.7	1959.4	1969.6
30°	1899.2	1889.0	1880.0	1877.7	1885.6
32.5°	1805.0	1802.8	1791.4	1786.9	1790.3
35°	1706.3	1704.0	1698.3	1690.4	1693.8
37.5°	1612.0	1610.9	1603.0	1589.3	1580.2
40°	1511.0	1503.1	1497.4	1478.1	1471.3
42.5°	1399.7	1397.5	1387.3	1365.7	1357.7
45°	1296.4	1287.4	1273.7	1251.0	1248.8
47.5°	1189.7	1177.2	1164.8	1136.4	1135.2
50°	1079.6	1070.5	1055.8	1027.4	1016.0
52.5°	977.4	965.0	944.5	917.3	911.6
55°	879.8	861.6	840.1	817.4	811.7
57.5°	775.4	767.4	741.3	723.1	716.3
60°	683.4	676.6	650.5	633.5	633.5
62.5°	600.5	590.3	567.6	556.3	556.3
65°	519.9	512.0	492.7	488.2	485.9
67.5°	450.7	440.5	426.8	425.7	431.4
70°	390.5	378.0	366.7	378.0	381.4
72.5°	333.8	325.8	315.6	330.4	337.2
75°	282.7	275.9	270.2	282.7	292.9
77.5°	236.1	229.3	229.3	242.9	252.0
80°	189.6	185.0	189.6	200.9	210.0
82.5°	145.3	141.9	147.6	158.9	164.6
85°	98.8	93.1	99.9	110.1	111.3
87.5°	46.5	45.4	50.0	56.8	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)