

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: P294209

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-FGW080-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6830.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

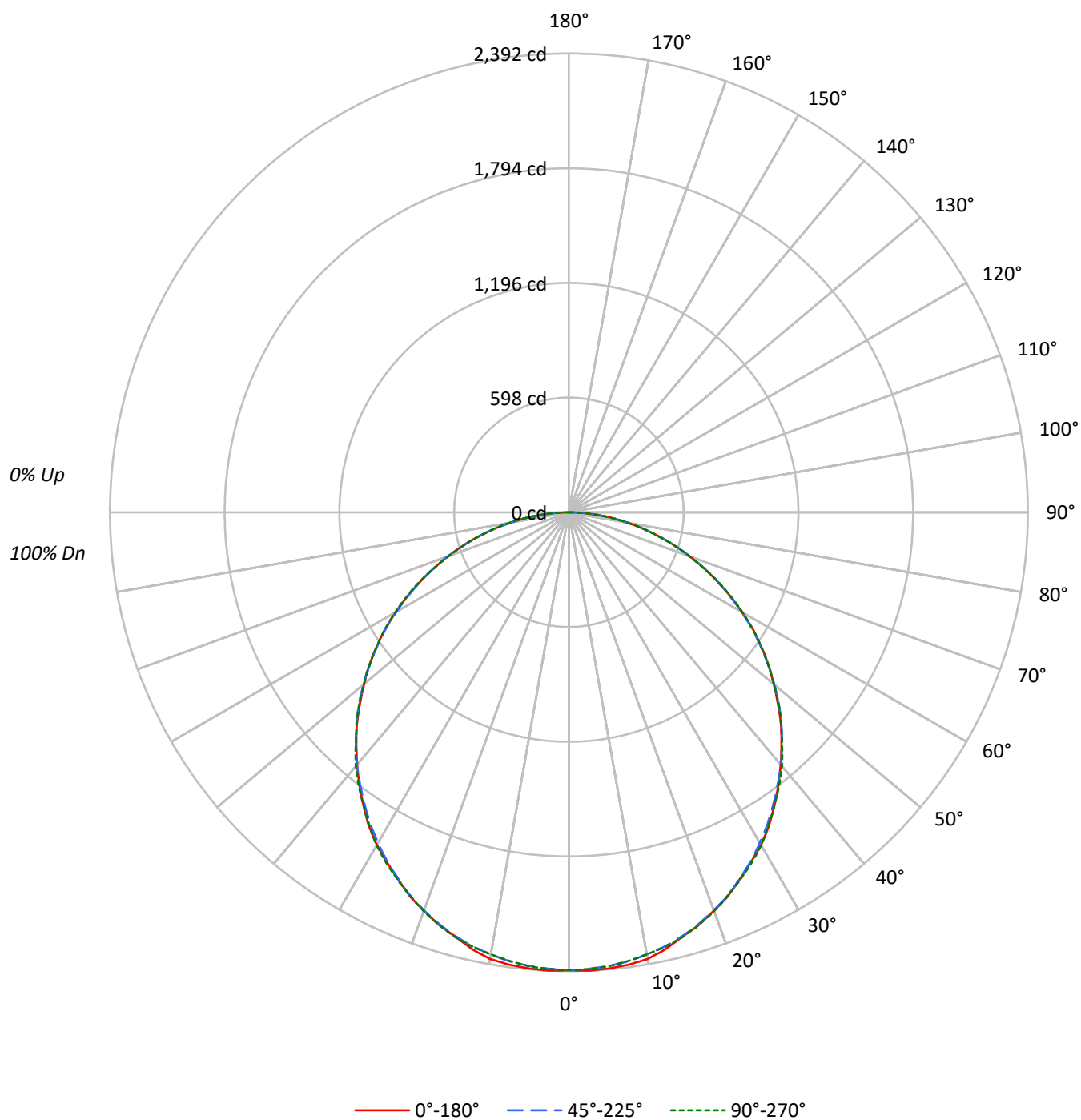
Input Watts (W): 62.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3212	3212	3212
5°	3224	3207	3209
10°	3231	3198	3198
15°	3188	3186	3193
20°	3164	3162	3169
25°	3130	3128	3137
30°	3111	3091	3113
35°	3066	3051	3066
40°	3016	3019	3036
45°	2973	2982	2976
50°	2916	2927	2920
55°	2872	2864	2872
60°	2805	2796	2822
65°	2718	2728	2739
70°	2630	2642	2624
75°	2537	2537	2537
80°	2397	2397	2421
85°	2214	2238	2163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	3.3
10°-20°	645.3	9.4
20°-30°	972.4	14.2
30°-40°	1164.7	17.1
40°-50°	1205.6	17.7
50°-60°	1093.1	16.0
60°-70°	847.5	12.4
70°-80°	515.4	7.5
80°-90°	160.3	2.3
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°	1843.4	27.0
0°-40°	3008.1	44.0
0°-60°	5306.8	77.7
0°-90°	6830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2387	2373	2374	2371	2376	227
15°	2289	2290	2287	2279	2292	647
25°	2108	2108	2107	2113	2113	973
35°	1867	1854	1857	1865	1867	1168
45°	1562	1566	1567	1561	1564	1204
55°	1224	1218	1221	1226	1224	1094
65°	854	858	857	854	860	847
75°	488	486	488	486	488	516
85°	143	142	145	143	140	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387.2	2387.2	2387.2	2387.2	2387.2
2.5°	2392.0	2382.3	2382.3	2379.1	2383.9
5°	2387.2	2372.7	2374.3	2371.1	2375.9
7.5°	2379.1	2359.8	2361.4	2358.2	2359.8
10°	2364.6	2342.1	2340.5	2338.8	2340.5
12.5°	2332.4	2319.5	2317.9	2314.7	2319.5
15°	2288.9	2290.5	2287.3	2279.2	2292.1
17.5°	2255.1	2253.5	2250.2	2242.2	2255.1
20°	2210.0	2211.6	2208.4	2205.1	2213.2
22.5°	2166.5	2161.7	2163.3	2161.7	2163.3
25°	2108.5	2108.5	2106.9	2113.3	2113.3
27.5°	2055.3	2048.9	2052.1	2058.6	2061.8
30°	2002.2	1986.1	1989.3	1995.7	2003.8
32.5°	1939.4	1923.3	1926.5	1932.9	1936.1
35°	1866.9	1854.0	1857.2	1865.3	1866.9
37.5°	1792.8	1784.7	1788.0	1794.4	1799.2
40°	1717.1	1713.9	1718.7	1717.1	1728.4
42.5°	1639.8	1638.2	1643.0	1643.0	1644.6
45°	1562.4	1565.7	1567.3	1560.8	1564.1
47.5°	1477.1	1478.7	1485.1	1481.9	1483.5
50°	1393.3	1391.7	1398.1	1399.8	1394.9
52.5°	1312.8	1304.7	1311.2	1314.4	1311.2
55°	1224.2	1217.7	1221.0	1225.8	1224.2
57.5°	1137.2	1130.8	1132.4	1140.4	1137.2
60°	1042.2	1040.6	1038.9	1045.4	1048.6
62.5°	948.7	947.1	943.9	950.4	953.6
65°	853.7	858.5	856.9	853.7	860.2
67.5°	763.5	768.3	763.5	760.3	760.3
70°	668.5	673.3	671.7	668.5	666.9
72.5°	579.9	579.9	576.7	575.0	576.7
75°	488.1	486.5	488.1	486.5	488.1
77.5°	397.9	399.5	399.5	399.5	397.9
80°	309.3	309.3	309.3	310.9	312.5
82.5°	227.1	222.3	227.1	223.9	225.5
85°	143.4	141.7	145.0	143.4	140.1
87.5°	64.4	66.0	66.0	67.7	67.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)