

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: P294418

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294418
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6784.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

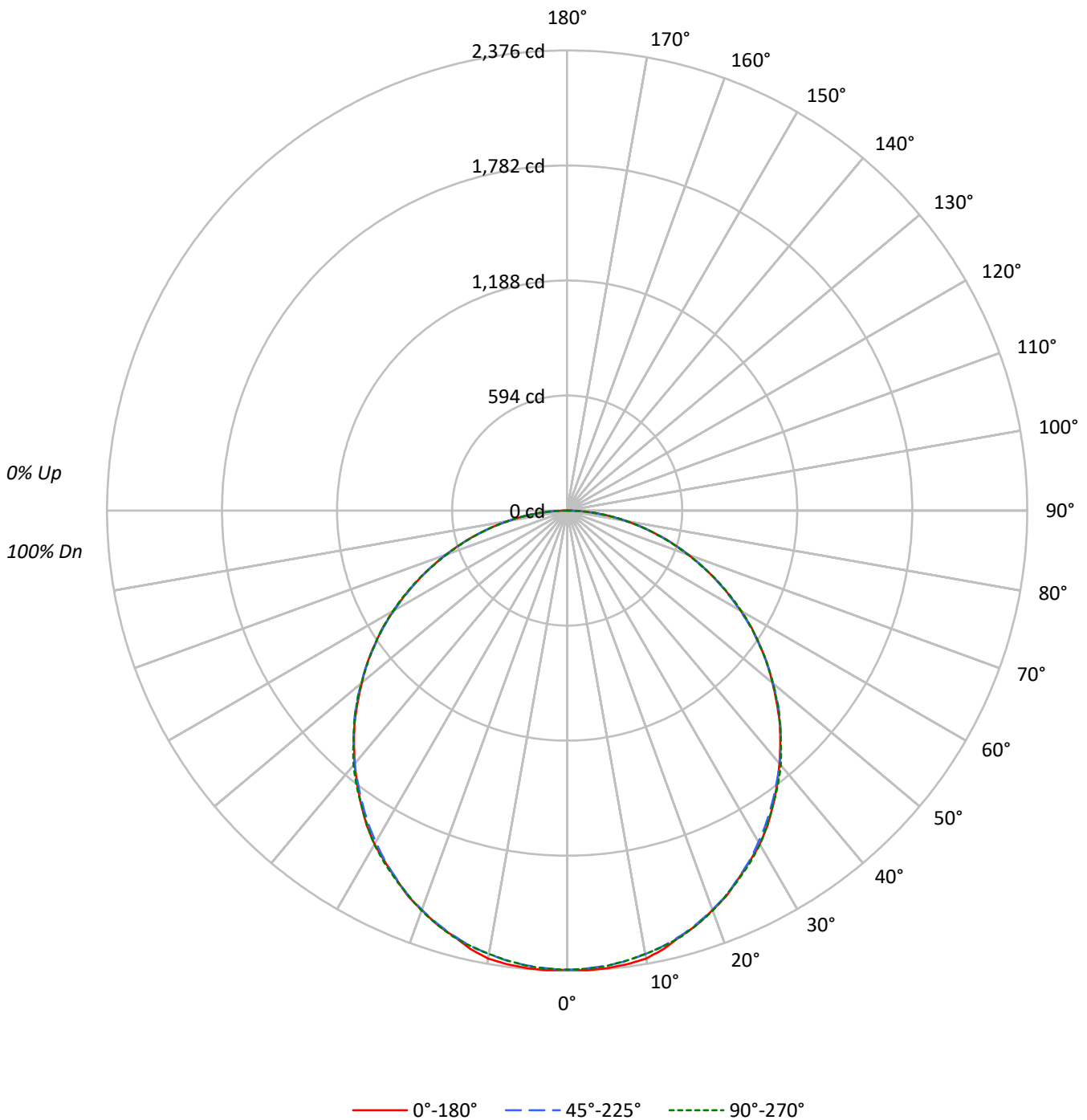
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3190	3190	3190
5°	3202	3185	3187
10°	3209	3176	3176
15°	3167	3165	3171
20°	3143	3141	3148
25°	3109	3107	3116
30°	3090	3070	3092
35°	3046	3030	3046
40°	2996	2998	3015
45°	2953	2962	2956
50°	2897	2907	2900
55°	2852	2845	2852
60°	2786	2777	2803
65°	2700	2710	2720
70°	2612	2625	2606
75°	2520	2520	2520
80°	2380	2380	2405
85°	2198	2223	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	3.3
10°-20°	640.9	9.4
20°-30°	965.9	14.2
30°-40°	1156.8	17.1
40°-50°	1197.4	17.7
50°-60°	1085.7	16.0
60°-70°	841.8	12.4
70°-80°	511.9	7.5
80°-90°	159.3	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°	1831.0	27.0
0°-40°	2987.8	44.0
0°-60°	5271.0	77.7
0°-90°	6784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2371	2357	2358	2355	2360	226
15°	2274	2275	2272	2264	2277	643
25°	2094	2094	2093	2099	2099	967
35°	1854	1842	1845	1853	1854	1160
45°	1552	1555	1557	1550	1554	1196
55°	1216	1210	1213	1218	1216	1087
65°	848	853	851	848	854	841
75°	485	483	485	483	485	512
85°	142	141	144	142	139	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2371.1	2371.1	2371.1	2371.1	2371.1
2.5°	2375.9	2366.3	2366.3	2363.1	2367.9
5°	2371.1	2356.7	2358.3	2355.1	2359.9
7.5°	2363.1	2343.9	2345.5	2342.3	2343.9
10°	2348.7	2326.3	2324.7	2323.1	2324.7
12.5°	2316.7	2303.9	2302.3	2299.1	2303.9
15°	2273.5	2275.1	2271.9	2263.9	2276.7
17.5°	2239.9	2238.3	2235.1	2227.1	2239.9
20°	2195.1	2196.7	2193.5	2190.3	2198.3
22.5°	2151.9	2147.1	2148.7	2147.1	2148.7
25°	2094.3	2094.3	2092.7	2099.1	2099.1
27.5°	2041.5	2035.1	2038.3	2044.7	2047.9
30°	1988.7	1972.7	1975.9	1982.3	1990.3
32.5°	1926.3	1910.3	1913.5	1919.9	1923.1
35°	1854.3	1841.5	1844.7	1852.7	1854.3
37.5°	1780.7	1772.7	1775.9	1782.3	1787.1
40°	1705.5	1702.3	1707.1	1705.5	1716.7
42.5°	1628.7	1627.1	1631.9	1631.9	1633.5
45°	1551.9	1555.1	1556.7	1550.3	1553.5
47.5°	1467.1	1468.7	1475.1	1471.9	1473.5
50°	1383.9	1382.3	1388.7	1390.3	1385.5
52.5°	1303.9	1295.9	1302.3	1305.5	1302.3
55°	1215.9	1209.5	1212.7	1217.5	1215.9
57.5°	1129.5	1123.1	1124.7	1132.7	1129.5
60°	1035.2	1033.6	1032.0	1038.4	1041.5
62.5°	942.4	940.8	937.6	944.0	947.2
65°	848.0	852.8	851.2	848.0	854.4
67.5°	758.4	763.2	758.4	755.2	755.2
70°	664.0	668.8	667.2	664.0	662.4
72.5°	576.0	576.0	572.8	571.2	572.8
75°	484.8	483.2	484.8	483.2	484.8
77.5°	395.2	396.8	396.8	396.8	395.2
80°	307.2	307.2	307.2	308.8	310.4
82.5°	225.6	220.8	225.6	222.4	224.0
85°	142.4	140.8	144.0	142.4	139.2
87.5°	64.0	65.6	65.6	67.2	67.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)