

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: P294294

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294294
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7555.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

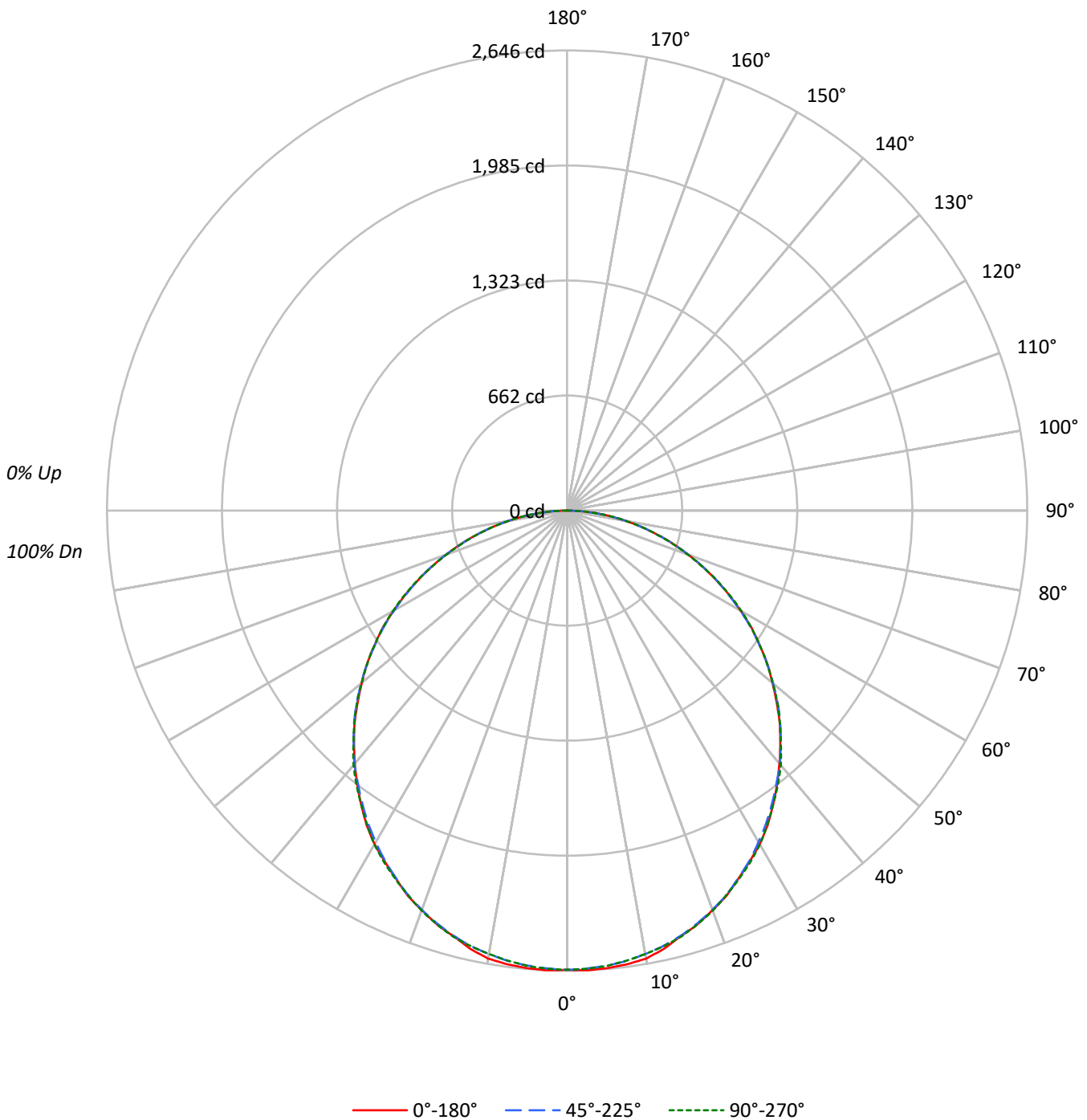
Input Watts (W): 65.193
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3553	3553	3553
5°	3566	3547	3550
10°	3574	3537	3537
15°	3527	3524	3532
20°	3500	3498	3505
25°	3462	3460	3471
30°	3441	3419	3444
35°	3392	3374	3392
40°	3336	3339	3358
45°	3289	3299	3292
50°	3226	3237	3230
55°	3176	3168	3176
60°	3102	3092	3121
65°	3006	3018	3029
70°	2909	2923	2902
75°	2807	2807	2807
80°	2651	2651	2679
85°	2448	2476	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	3.3
10°-20°	713.8	9.4
20°-30°	1075.6	14.2
30°-40°	1288.3	17.1
40°-50°	1333.6	17.7
50°-60°	1209.2	16.0
60°-70°	937.5	12.4
70°-80°	570.1	7.5
80°-90°	177.4	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°	2039.1	27.0
0°-40°	3327.4	44.0
0°-60°	5870.1	77.7
0°-90°	7555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2641	2624	2626	2623	2628	251
15°	2532	2534	2530	2521	2535	716
25°	2332	2332	2330	2338	2338	1077
35°	2065	2051	2054	2063	2065	1292
45°	1728	1732	1734	1726	1730	1331
55°	1354	1347	1351	1356	1354	1210
65°	944	950	948	944	952	937
75°	540	538	540	538	540	570
85°	159	157	160	159	155	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2640.6	2640.6	2640.6	2640.6	2640.6
2.5°	2645.9	2635.2	2635.2	2631.7	2637.0
5°	2640.6	2624.5	2626.3	2622.7	2628.1
7.5°	2631.7	2610.3	2612.1	2608.5	2610.3
10°	2615.6	2590.7	2588.9	2587.1	2588.9
12.5°	2580.0	2565.7	2563.9	2560.4	2565.7
15°	2531.9	2533.7	2530.1	2521.2	2535.4
17.5°	2494.5	2492.7	2489.1	2480.2	2494.5
20°	2444.6	2446.3	2442.8	2439.2	2448.1
22.5°	2396.5	2391.1	2392.9	2391.1	2392.9
25°	2332.3	2332.3	2330.5	2337.7	2337.7
27.5°	2273.5	2266.4	2270.0	2277.1	2280.6
30°	2214.7	2196.9	2200.5	2207.6	2216.5
32.5°	2145.2	2127.4	2131.0	2138.1	2141.7
35°	2065.1	2050.8	2054.4	2063.3	2065.1
37.5°	1983.1	1974.2	1977.7	1984.9	1990.2
40°	1899.3	1895.8	1901.1	1899.3	1911.8
42.5°	1813.8	1812.0	1817.4	1817.4	1819.2
45°	1728.3	1731.9	1733.6	1726.5	1730.1
47.5°	1633.9	1635.7	1642.8	1639.2	1641.0
50°	1541.2	1539.4	1546.6	1548.3	1543.0
52.5°	1452.1	1443.2	1450.3	1453.9	1450.3
55°	1354.1	1347.0	1350.6	1355.9	1354.1
57.5°	1257.9	1250.8	1252.6	1261.5	1257.9
60°	1152.8	1151.0	1149.2	1156.4	1159.9
62.5°	1049.5	1047.7	1044.1	1051.2	1054.8
65°	944.3	949.7	947.9	944.3	951.5
67.5°	844.6	849.9	844.6	841.0	841.0
70°	739.4	744.8	743.0	739.4	737.6
72.5°	641.4	641.4	637.9	636.1	637.9
75°	539.9	538.1	539.9	538.1	539.9
77.5°	440.1	441.9	441.9	441.9	440.1
80°	342.1	342.1	342.1	343.9	345.7
82.5°	251.2	245.9	251.2	247.7	249.4
85°	158.6	156.8	160.4	158.6	155.0
87.5°	71.3	73.1	73.1	74.8	74.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)