

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: P294293

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294293
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7535.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

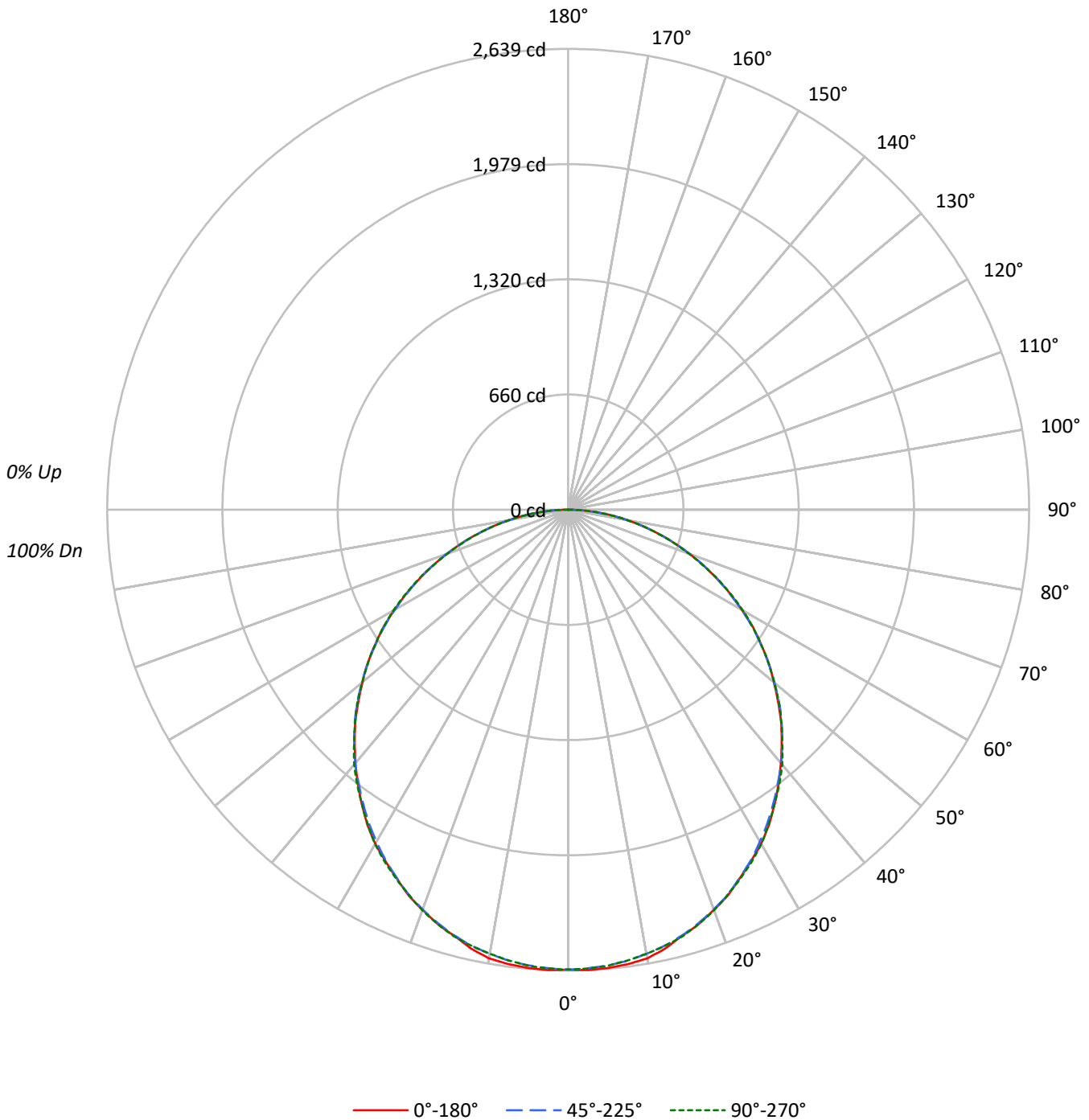
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3543	3543	3543
5°	3557	3538	3540
10°	3564	3528	3528
15°	3517	3515	3522
20°	3491	3488	3496
25°	3453	3451	3461
30°	3432	3410	3434
35°	3383	3365	3383
40°	3327	3330	3349
45°	3280	3290	3283
50°	3217	3229	3221
55°	3168	3160	3168
60°	3094	3084	3113
65°	2998	3010	3021
70°	2901	2915	2894
75°	2799	2799	2799
80°	2644	2644	2671
85°	2442	2468	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	3.3
10°-20°	711.9	9.4
20°-30°	1072.8	14.2
30°-40°	1284.9	17.1
40°-50°	1330.0	17.7
50°-60°	1206.0	16.0
60°-70°	935.0	12.4
70°-80°	568.6	7.5
80°-90°	176.9	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°	2033.7	27.0
0°-40°	3318.6	44.0
0°-60°	5854.6	77.7
0°-90°	7535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2634	2634	2634	2634	2634	
5°	2634	2618	2619	2616	2621	251
15°	2525	2527	2523	2514	2529	714
25°	2326	2326	2324	2332	2332	1074
35°	2060	2045	2049	2058	2060	1288
45°	1724	1727	1729	1722	1726	1328
55°	1350	1343	1347	1352	1350	1207
65°	942	947	945	942	949	934
75°	538	537	538	537	538	569
85°	158	156	160	158	155	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2633.6	2633.6	2633.6	2633.6	2633.6
2.5°	2638.9	2628.2	2628.2	2624.7	2630.0
5°	2633.6	2617.6	2619.4	2615.8	2621.1
7.5°	2624.7	2603.4	2605.1	2601.6	2603.4
10°	2608.7	2583.8	2582.0	2580.3	2582.0
12.5°	2573.1	2558.9	2557.2	2553.6	2558.9
15°	2525.2	2526.9	2523.4	2514.5	2528.7
17.5°	2487.9	2486.1	2482.5	2473.6	2487.9
20°	2438.1	2439.9	2436.3	2432.8	2441.6
22.5°	2390.1	2384.8	2386.6	2384.8	2386.6
25°	2326.1	2326.1	2324.4	2331.5	2331.5
27.5°	2267.5	2260.4	2263.9	2271.1	2274.6
30°	2208.9	2191.1	2194.6	2201.7	2210.6
32.5°	2139.6	2121.8	2125.3	2132.4	2136.0
35°	2059.6	2045.4	2048.9	2057.8	2059.6
37.5°	1977.8	1969.0	1972.5	1979.6	1985.0
40°	1894.3	1890.8	1896.1	1894.3	1906.8
42.5°	1809.0	1807.2	1812.6	1812.6	1814.4
45°	1723.7	1727.3	1729.1	1721.9	1725.5
47.5°	1629.5	1631.3	1638.4	1634.9	1636.7
50°	1537.1	1535.4	1542.5	1544.2	1538.9
52.5°	1448.3	1439.4	1446.5	1450.1	1446.5
55°	1350.5	1343.4	1347.0	1352.3	1350.5
57.5°	1254.6	1247.5	1249.3	1258.1	1254.6
60°	1149.7	1148.0	1146.2	1153.3	1156.9
62.5°	1046.7	1044.9	1041.3	1048.5	1052.0
65°	941.8	947.2	945.4	941.8	948.9
67.5°	842.3	847.6	842.3	838.8	838.8
70°	737.5	742.8	741.0	737.5	735.7
72.5°	639.7	639.7	636.2	634.4	636.2
75°	538.4	536.7	538.4	536.7	538.4
77.5°	438.9	440.7	440.7	440.7	438.9
80°	341.2	341.2	341.2	343.0	344.7
82.5°	250.6	245.2	250.6	247.0	248.8
85°	158.2	156.4	159.9	158.2	154.6
87.5°	71.1	72.9	72.9	74.6	74.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)