

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: P294338

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294338
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-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6751.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

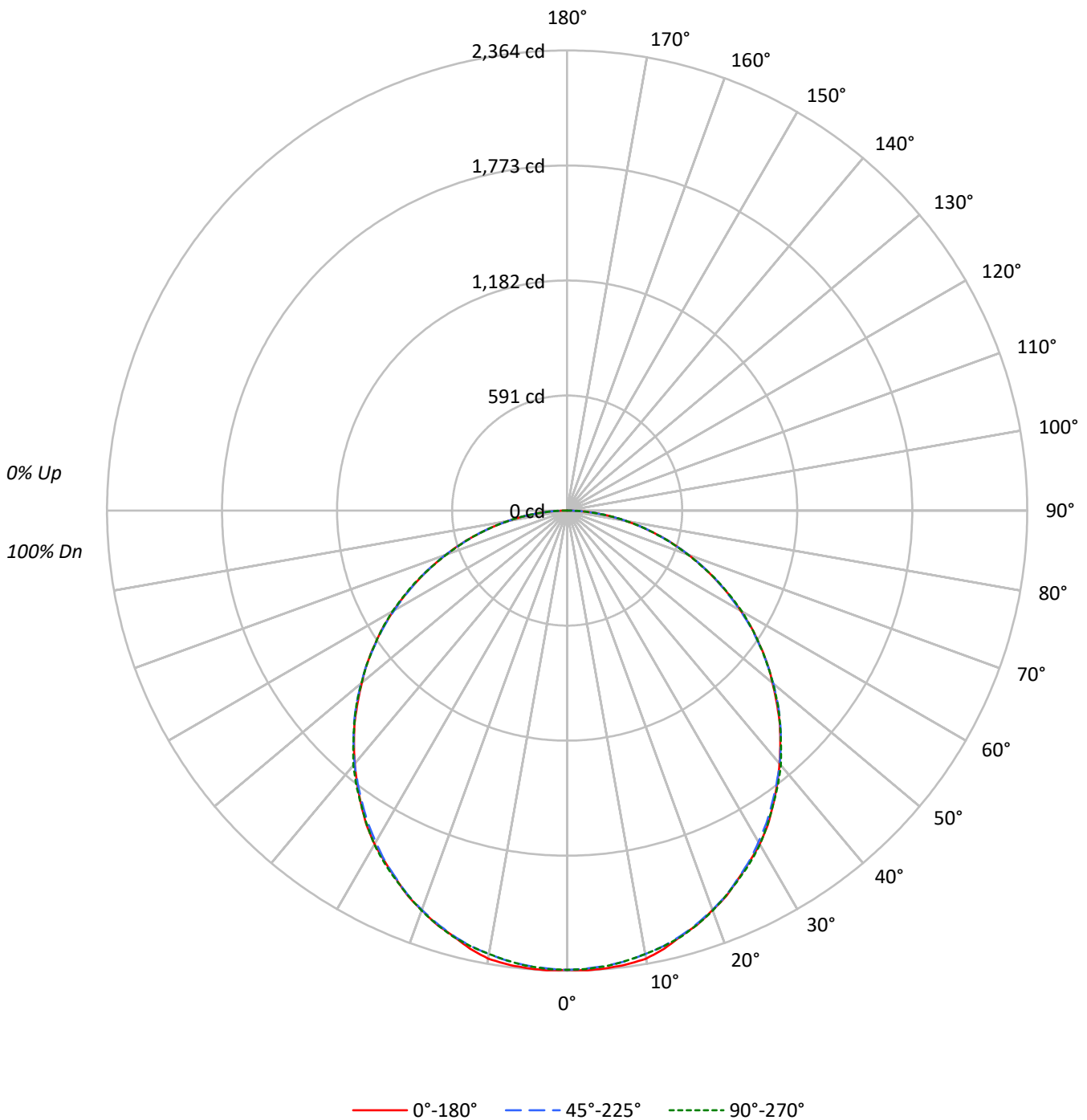
Input Watts (W): 65.023926
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3175	3175	3175
5°	3187	3170	3172
10°	3193	3161	3161
15°	3151	3149	3156
20°	3128	3125	3132
25°	3094	3092	3101
30°	3075	3055	3077
35°	3031	3015	3031
40°	2981	2984	3001
45°	2939	2948	2942
50°	2883	2893	2886
55°	2838	2831	2838
60°	2772	2763	2789
65°	2686	2697	2707
70°	2599	2612	2593
75°	2508	2508	2508
80°	2369	2369	2393
85°	2188	2212	2138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	3.3
10°-20°	637.8	9.4
20°-30°	961.2	14.2
30°-40°	1151.2	17.1
40°-50°	1191.7	17.7
50°-60°	1080.5	16.0
60°-70°	837.7	12.4
70°-80°	509.4	7.5
80°-90°	158.5	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°	1822.1	27.0
0°-40°	2973.3	44.0
0°-60°	5245.4	77.7
0°-90°	6751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2360	2345	2347	2344	2348	225
15°	2262	2264	2261	2253	2266	640
25°	2084	2084	2082	2089	2089	962
35°	1845	1833	1836	1844	1845	1154
45°	1544	1548	1549	1543	1546	1190
55°	1210	1204	1207	1212	1210	1082
65°	844	849	847	844	850	837
75°	482	481	482	481	482	510
85°	142	140	143	142	138	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.6	2359.6	2359.6	2359.6	2359.6
2.5°	2364.3	2354.8	2354.8	2351.6	2356.4
5°	2359.6	2345.2	2346.8	2343.6	2348.4
7.5°	2351.6	2332.5	2334.1	2330.9	2332.5
10°	2337.3	2315.0	2313.4	2311.8	2313.4
12.5°	2305.4	2292.7	2291.1	2287.9	2292.7
15°	2262.4	2264.0	2260.8	2252.9	2265.6
17.5°	2229.0	2227.4	2224.2	2216.3	2229.0
20°	2184.4	2186.0	2182.8	2179.6	2187.6
22.5°	2141.4	2136.7	2138.2	2136.7	2138.2
25°	2084.1	2084.1	2082.5	2088.9	2088.9
27.5°	2031.6	2025.2	2028.4	2034.8	2037.9
30°	1979.0	1963.1	1966.3	1972.7	1980.6
32.5°	1916.9	1901.0	1904.2	1910.6	1913.8
35°	1845.3	1832.6	1835.7	1843.7	1845.3
37.5°	1772.1	1764.1	1767.3	1773.6	1778.4
40°	1697.2	1694.0	1698.8	1697.2	1708.4
42.5°	1620.8	1619.2	1624.0	1624.0	1625.6
45°	1544.4	1547.6	1549.2	1542.8	1546.0
47.5°	1460.0	1461.6	1468.0	1464.8	1466.4
50°	1377.2	1375.6	1382.0	1383.6	1378.8
52.5°	1297.6	1289.6	1296.0	1299.2	1296.0
55°	1210.0	1203.7	1206.8	1211.6	1210.0
57.5°	1124.1	1117.7	1119.3	1127.2	1124.1
60°	1030.1	1028.5	1026.9	1033.3	1036.5
62.5°	937.8	936.2	933.0	939.4	942.5
65°	843.8	848.6	847.0	843.8	850.2
67.5°	754.7	759.5	754.7	751.5	751.5
70°	660.7	665.5	663.9	660.7	659.1
72.5°	573.2	573.2	570.0	568.4	570.0
75°	482.4	480.8	482.4	480.8	482.4
77.5°	393.3	394.9	394.9	394.9	393.3
80°	305.7	305.7	305.7	307.3	308.9
82.5°	224.5	219.7	224.5	221.3	222.9
85°	141.7	140.1	143.3	141.7	138.5
87.5°	63.7	65.3	65.3	66.9	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)