

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: P294283

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294283
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-LD5-72-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6555.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

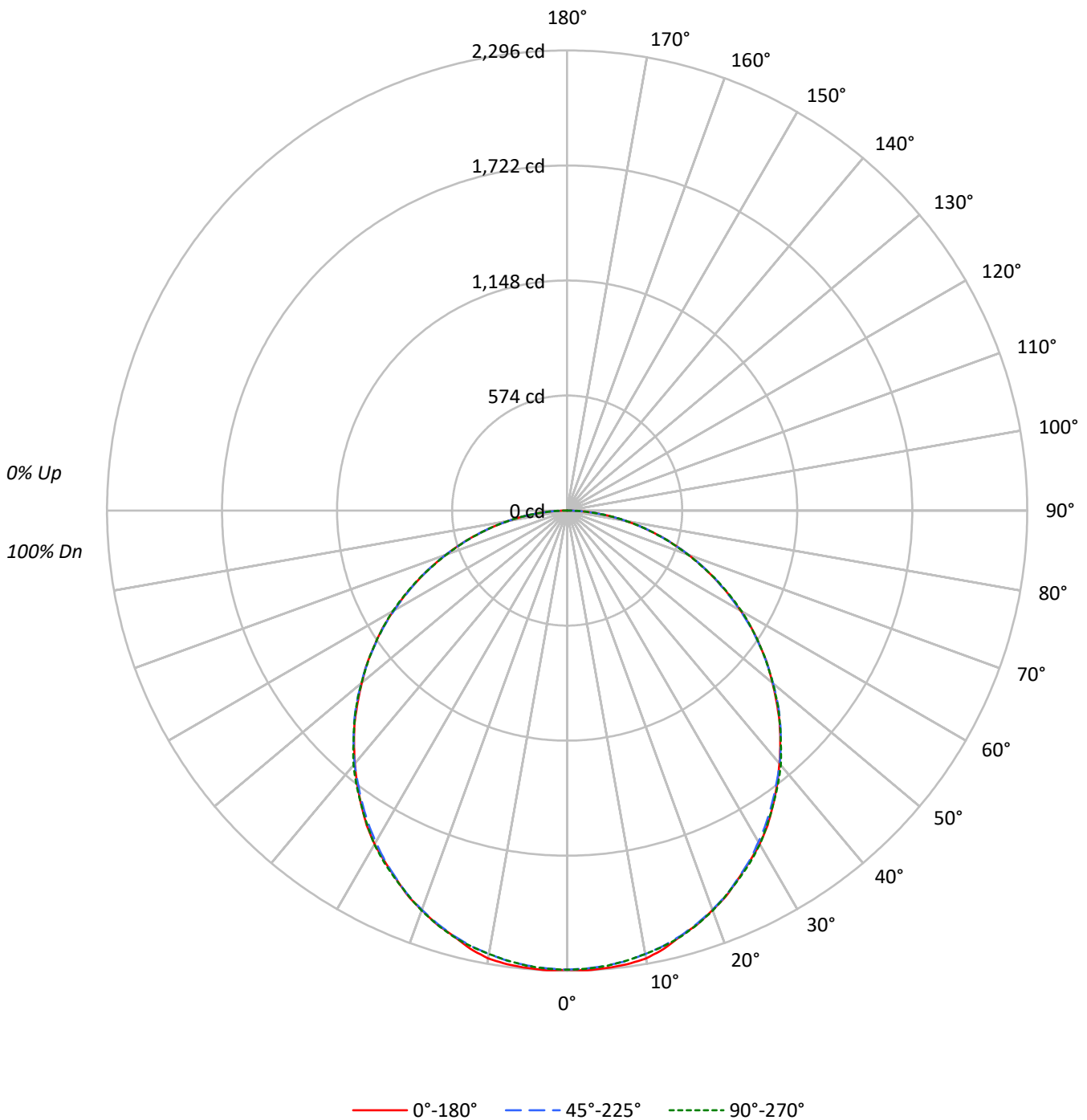
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3083	3083	3083
5°	3094	3078	3080
10°	3101	3069	3069
15°	3060	3058	3064
20°	3037	3035	3041
25°	3004	3002	3011
30°	2985	2966	2988
35°	2943	2928	2943
40°	2894	2897	2914
45°	2853	2862	2856
50°	2799	2809	2802
55°	2756	2749	2756
60°	2692	2683	2708
65°	2608	2618	2628
70°	2524	2536	2518
75°	2435	2435	2435
80°	2300	2300	2324
85°	2124	2147	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	3.3
10°-20°	619.3	9.4
20°-30°	933.3	14.2
30°-40°	1117.8	17.1
40°-50°	1157.0	17.7
50°-60°	1049.1	16.0
60°-70°	813.4	12.4
70°-80°	494.6	7.5
80°-90°	153.9	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°	1769.2	27.0
0°-40°	2887.0	44.0
0°-60°	5093.1	77.7
0°-90°	6555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2291	2277	2279	2276	2280	218
15°	2197	2198	2195	2188	2200	621
25°	2024	2024	2022	2028	2028	934
35°	1792	1779	1782	1790	1792	1121
45°	1500	1503	1504	1498	1501	1155
55°	1175	1169	1172	1176	1175	1050
65°	819	824	822	819	826	813
75°	468	467	468	467	468	495
85°	138	136	139	138	134	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.0	2291.0	2291.0	2291.0	2291.0
2.5°	2295.7	2286.4	2286.4	2283.3	2288.0
5°	2291.0	2277.1	2278.7	2275.6	2280.2
7.5°	2283.3	2264.8	2266.3	2263.2	2264.8
10°	2269.4	2247.8	2246.2	2244.7	2246.2
12.5°	2238.5	2226.1	2224.6	2221.5	2226.1
15°	2196.7	2198.3	2195.2	2187.5	2199.8
17.5°	2164.3	2162.7	2159.6	2151.9	2164.3
20°	2121.0	2122.5	2119.5	2116.4	2124.1
22.5°	2079.3	2074.6	2076.2	2074.6	2076.2
25°	2023.6	2023.6	2022.1	2028.2	2028.2
27.5°	1972.6	1966.4	1969.5	1975.7	1978.8
30°	1921.6	1906.1	1909.2	1915.4	1923.1
32.5°	1861.3	1845.8	1848.9	1855.1	1858.2
35°	1791.7	1779.3	1782.4	1790.2	1791.7
37.5°	1720.6	1712.9	1716.0	1722.2	1726.8
40°	1647.9	1644.9	1649.5	1647.9	1658.8
42.5°	1573.7	1572.2	1576.8	1576.8	1578.4
45°	1499.5	1502.6	1504.2	1498.0	1501.1
47.5°	1417.6	1419.2	1425.3	1422.2	1423.8
50°	1337.2	1335.7	1341.9	1343.4	1338.8
52.5°	1259.9	1252.2	1258.4	1261.5	1258.4
55°	1174.9	1168.7	1171.8	1176.4	1174.9
57.5°	1091.4	1085.2	1086.8	1094.5	1091.4
60°	1000.2	998.7	997.1	1003.3	1006.4
62.5°	910.5	909.0	905.9	912.1	915.2
65°	819.3	824.0	822.4	819.3	825.5
67.5°	732.8	737.4	732.8	729.7	729.7
70°	641.6	646.2	644.6	641.6	640.0
72.5°	556.5	556.5	553.4	551.9	553.4
75°	468.4	466.9	468.4	466.9	468.4
77.5°	381.8	383.4	383.4	383.4	381.8
80°	296.8	296.8	296.8	298.4	299.9
82.5°	218.0	213.3	218.0	214.9	216.4
85°	137.6	136.0	139.1	137.6	134.5
87.5°	61.8	63.4	63.4	64.9	64.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)