

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: P294207

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294207
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-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6683.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

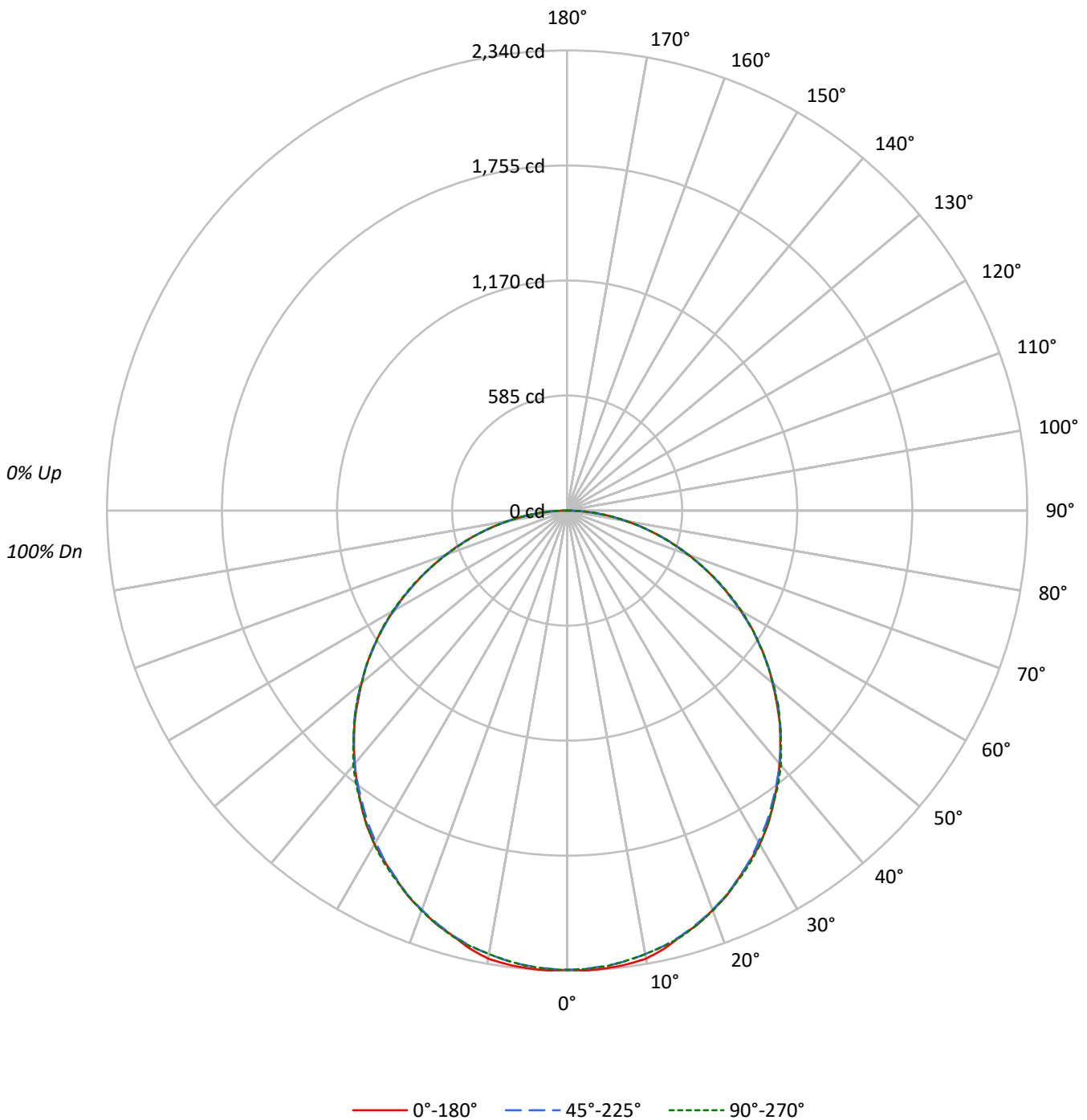
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3143	3143	3143
5°	3155	3138	3140
10°	3161	3129	3129
15°	3120	3118	3124
20°	3096	3094	3101
25°	3063	3060	3070
30°	3044	3024	3046
35°	3000	2985	3000
40°	2951	2954	2970
45°	2909	2918	2912
50°	2854	2864	2857
55°	2810	2803	2810
60°	2744	2736	2761
65°	2659	2670	2679
70°	2573	2585	2567
75°	2483	2483	2483
80°	2345	2345	2369
85°	2166	2189	2117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	3.3
10°-20°	631.4	9.4
20°-30°	951.5	14.2
30°-40°	1139.6	17.1
40°-50°	1179.6	17.7
50°-60°	1069.6	16.0
60°-70°	829.2	12.4
70°-80°	504.3	7.5
80°-90°	156.9	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°	1803.7	27.0
0°-40°	2943.3	44.0
0°-60°	5192.5	77.7
0°-90°	6683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2336	2322	2323	2320	2325	222
15°	2240	2241	2238	2230	2243	633
25°	2063	2063	2062	2068	2068	952
35°	1827	1814	1817	1825	1827	1143
45°	1529	1532	1534	1527	1530	1178
55°	1198	1192	1195	1199	1198	1071
65°	835	840	838	835	842	828
75°	478	476	478	476	478	504
85°	140	139	142	140	137	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2335.8	2335.8	2335.8	2335.8	2335.8
2.5°	2340.5	2331.1	2331.1	2327.9	2332.6
5°	2335.8	2321.6	2323.2	2320.0	2324.8
7.5°	2327.9	2309.0	2310.6	2307.4	2309.0
10°	2313.7	2291.7	2290.1	2288.5	2290.1
12.5°	2282.2	2269.6	2268.0	2264.9	2269.6
15°	2239.6	2241.2	2238.1	2230.2	2242.8
17.5°	2206.5	2205.0	2201.8	2193.9	2206.5
20°	2162.4	2164.0	2160.8	2157.7	2165.6
22.5°	2119.9	2115.1	2116.7	2115.1	2116.7
25°	2063.1	2063.1	2061.5	2067.8	2067.8
27.5°	2011.1	2004.8	2008.0	2014.3	2017.4
30°	1959.1	1943.3	1946.5	1952.8	1960.7
32.5°	1897.6	1881.9	1885.0	1891.3	1894.5
35°	1826.7	1814.1	1817.2	1825.1	1826.7
37.5°	1754.2	1746.3	1749.5	1755.8	1760.5
40°	1680.1	1677.0	1681.7	1680.1	1691.2
42.5°	1604.5	1602.9	1607.6	1607.6	1609.2
45°	1528.8	1532.0	1533.5	1527.2	1530.4
47.5°	1445.3	1446.9	1453.2	1450.0	1451.6
50°	1363.3	1361.8	1368.1	1369.6	1364.9
52.5°	1284.5	1276.6	1282.9	1286.1	1282.9
55°	1197.8	1191.5	1194.7	1199.4	1197.8
57.5°	1112.7	1106.4	1108.0	1115.9	1112.7
60°	1019.7	1018.2	1016.6	1022.9	1026.0
62.5°	928.3	926.7	923.6	929.9	933.1
65°	835.3	840.1	838.5	835.3	841.6
67.5°	747.1	751.8	747.1	743.9	743.9
70°	654.1	658.8	657.2	654.1	652.5
72.5°	567.4	567.4	564.2	562.7	564.2
75°	477.6	476.0	477.6	476.0	477.6
77.5°	389.3	390.9	390.9	390.9	389.3
80°	302.6	302.6	302.6	304.2	305.8
82.5°	222.2	217.5	222.2	219.1	220.7
85°	140.3	138.7	141.8	140.3	137.1
87.5°	63.0	64.6	64.6	66.2	66.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)