

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: P294280

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294280
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6293.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

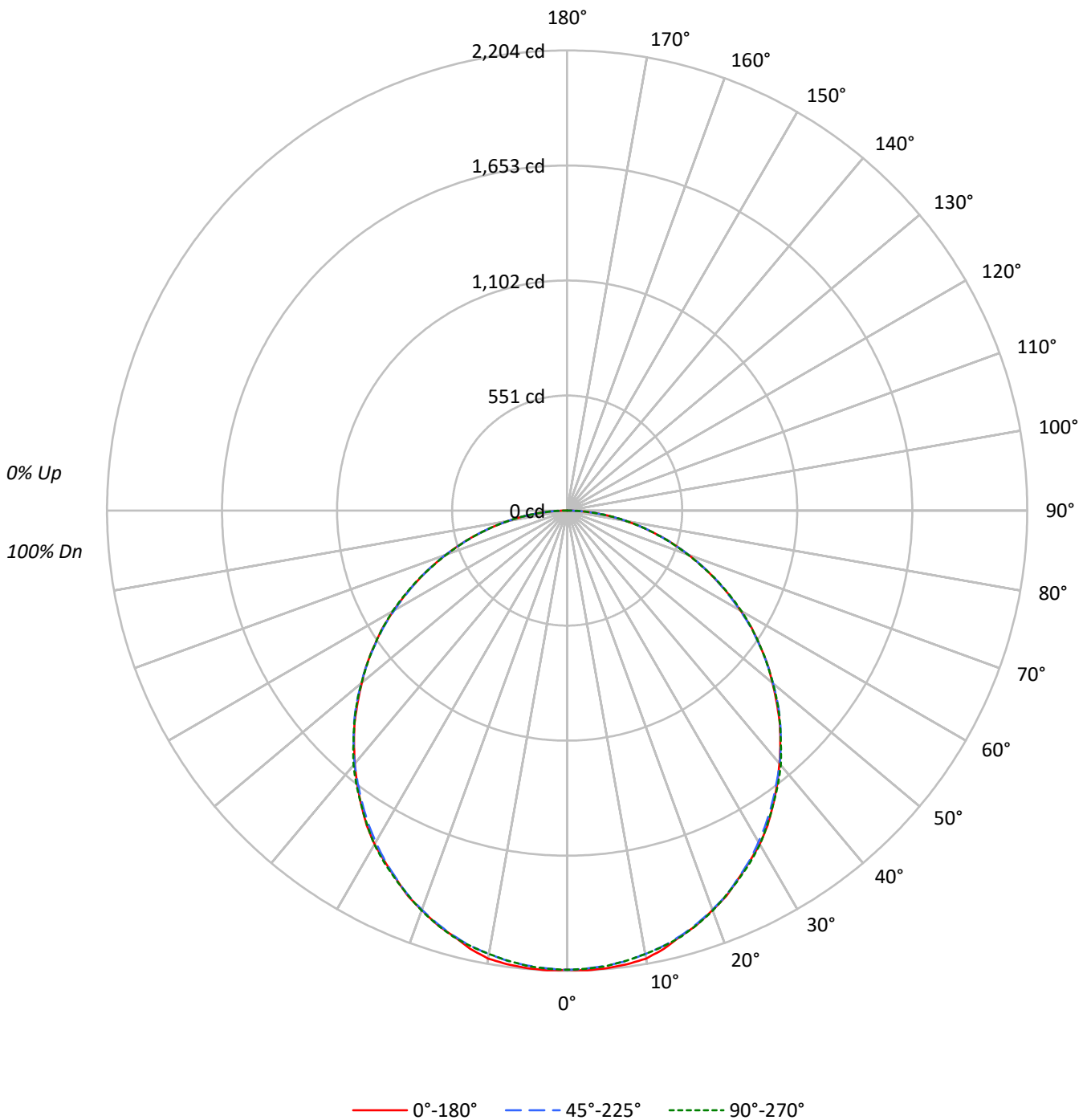
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2959	2959	2959
5°	2971	2955	2957
10°	2977	2946	2946
15°	2938	2936	2942
20°	2916	2913	2920
25°	2884	2882	2891
30°	2866	2848	2868
35°	2825	2811	2825
40°	2779	2781	2797
45°	2739	2748	2742
50°	2687	2696	2690
55°	2646	2639	2646
60°	2584	2576	2600
65°	2504	2514	2523
70°	2423	2435	2417
75°	2338	2338	2338
80°	2208	2208	2231
85°	2039	2062	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	3.3
10°-20°	594.5	9.4
20°-30°	896.0	14.2
30°-40°	1073.1	17.1
40°-50°	1110.8	17.7
50°-60°	1007.2	16.0
60°-70°	780.9	12.4
70°-80°	474.9	7.5
80°-90°	147.7	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°	1698.5	27.0
0°-40°	2771.6	44.0
0°-60°	4889.5	77.7
0°-90°	6293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2200	2186	2188	2185	2189	209
15°	2109	2110	2108	2100	2112	596
25°	1943	1943	1941	1947	1947	897
35°	1720	1708	1711	1719	1720	1076
45°	1440	1443	1444	1438	1441	1109
55°	1128	1122	1125	1129	1128	1008
65°	787	791	790	787	792	780
75°	450	448	450	448	450	475
85°	132	131	134	132	129	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.5	2199.5	2199.5	2199.5	2199.5
2.5°	2203.9	2195.0	2195.0	2192.1	2196.5
5°	2199.5	2186.1	2187.6	2184.6	2189.1
7.5°	2192.1	2174.2	2175.7	2172.8	2174.2
10°	2178.7	2157.9	2156.4	2155.0	2156.4
12.5°	2149.0	2137.1	2135.7	2132.7	2137.1
15°	2108.9	2110.4	2107.5	2100.0	2111.9
17.5°	2077.8	2076.3	2073.3	2065.9	2077.8
20°	2036.2	2037.7	2034.7	2031.8	2039.2
22.5°	1996.2	1991.7	1993.2	1991.7	1993.2
25°	1942.7	1942.7	1941.2	1947.2	1947.2
27.5°	1893.7	1887.8	1890.8	1896.7	1899.7
30°	1844.8	1829.9	1832.9	1838.8	1846.3
32.5°	1786.9	1772.0	1775.0	1781.0	1783.9
35°	1720.1	1708.2	1711.2	1718.6	1720.1
37.5°	1651.8	1644.4	1647.4	1653.3	1657.8
40°	1582.1	1579.1	1583.6	1582.1	1592.5
42.5°	1510.8	1509.4	1513.8	1513.8	1515.3
45°	1439.6	1442.6	1444.1	1438.1	1441.1
47.5°	1360.9	1362.4	1368.4	1365.4	1366.9
50°	1283.8	1282.3	1288.2	1289.7	1285.3
52.5°	1209.6	1202.1	1208.1	1211.0	1208.1
55°	1127.9	1122.0	1125.0	1129.4	1127.9
57.5°	1047.8	1041.9	1043.3	1050.8	1047.8
60°	960.2	958.7	957.3	963.2	966.2
62.5°	874.2	872.7	869.7	875.6	878.6
65°	786.6	791.0	789.6	786.6	792.5
67.5°	703.5	707.9	703.5	700.5	700.5
70°	615.9	620.4	618.9	615.9	614.4
72.5°	534.3	534.3	531.3	529.8	531.3
75°	449.7	448.2	449.7	448.2	449.7
77.5°	366.6	368.1	368.1	368.1	366.6
80°	285.0	285.0	285.0	286.4	287.9
82.5°	209.3	204.8	209.3	206.3	207.8
85°	132.1	130.6	133.6	132.1	129.1
87.5°	59.4	60.8	60.8	62.3	62.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)