

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: P294278

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294278
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5952.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

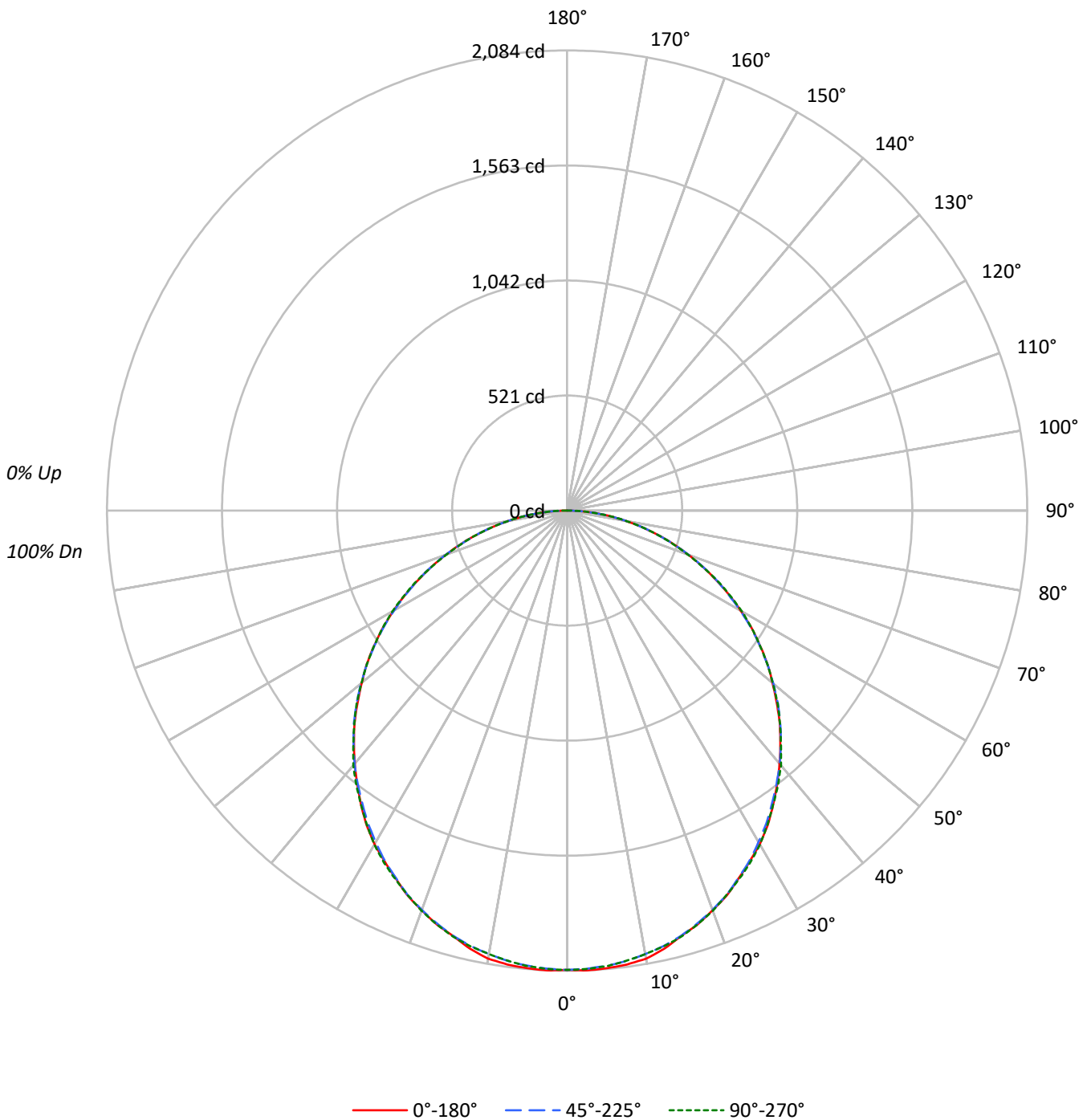
Input Watts (W): 52.173
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2799	2799	2799
5°	2810	2795	2796
10°	2815	2787	2787
15°	2779	2777	2782
20°	2758	2756	2762
25°	2728	2726	2734
30°	2711	2693	2713
35°	2672	2658	2672
40°	2628	2631	2646
45°	2591	2599	2594
50°	2542	2550	2545
55°	2502	2496	2502
60°	2444	2436	2459
65°	2369	2378	2387
70°	2292	2303	2286
75°	2211	2211	2211
80°	2088	2088	2110
85°	1928	1950	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.3
10°-20°	562.3	9.4
20°-30°	847.4	14.2
30°-40°	1015.0	17.1
40°-50°	1050.6	17.7
50°-60°	952.6	16.0
60°-70°	738.5	12.4
70°-80°	449.1	7.5
80°-90°	139.7	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°	1606.4	27.0
0°-40°	2621.4	44.0
0°-60°	4624.6	77.7
0°-90°	5952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2080	2068	2069	2066	2070	198
15°	1995	1996	1993	1986	1998	564
25°	1838	1838	1836	1842	1842	848
35°	1627	1616	1618	1626	1627	1018
45°	1362	1364	1366	1360	1363	1049
55°	1067	1061	1064	1068	1067	954
65°	744	748	747	744	750	738
75°	425	424	425	424	425	449
85°	125	124	126	125	122	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2080.3	2080.3	2080.3	2080.3	2080.3
2.5°	2084.5	2076.1	2076.1	2073.3	2077.5
5°	2080.3	2067.7	2069.1	2066.3	2070.5
7.5°	2073.3	2056.4	2057.8	2055.0	2056.4
10°	2060.6	2041.0	2039.6	2038.2	2039.6
12.5°	2032.6	2021.3	2019.9	2017.1	2021.3
15°	1994.7	1996.1	1993.3	1986.2	1997.5
17.5°	1965.2	1963.8	1961.0	1954.0	1965.2
20°	1925.9	1927.3	1924.5	1921.7	1928.7
22.5°	1888.0	1883.8	1885.2	1883.8	1885.2
25°	1837.5	1837.5	1836.0	1841.7	1841.7
27.5°	1791.1	1785.5	1788.3	1793.9	1796.7
30°	1744.8	1730.8	1733.6	1739.2	1746.2
32.5°	1690.1	1676.0	1678.8	1684.4	1687.3
35°	1626.9	1615.7	1618.5	1625.5	1626.9
37.5°	1562.3	1555.3	1558.1	1563.7	1567.9
40°	1496.4	1493.5	1497.8	1496.4	1506.2
42.5°	1429.0	1427.6	1431.8	1431.8	1433.2
45°	1361.6	1364.4	1365.8	1360.2	1363.0
47.5°	1287.2	1288.6	1294.2	1291.4	1292.8
50°	1214.2	1212.8	1218.4	1219.8	1215.6
52.5°	1144.0	1137.0	1142.6	1145.4	1142.6
55°	1066.8	1061.2	1064.0	1068.2	1066.8
57.5°	991.0	985.4	986.8	993.8	991.0
60°	908.2	906.8	905.4	911.0	913.8
62.5°	826.8	825.4	822.6	828.2	831.0
65°	744.0	748.2	746.8	744.0	749.6
67.5°	665.4	669.6	665.4	662.5	662.5
70°	582.5	586.7	585.3	582.5	581.1
72.5°	505.3	505.3	502.5	501.1	502.5
75°	425.3	423.9	425.3	423.9	425.3
77.5°	346.7	348.1	348.1	348.1	346.7
80°	269.5	269.5	269.5	270.9	272.3
82.5°	197.9	193.7	197.9	195.1	196.5
85°	124.9	123.5	126.3	124.9	122.1
87.5°	56.1	57.6	57.6	59.0	59.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)