

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: P294407

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294407
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-L92765-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: 5712.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

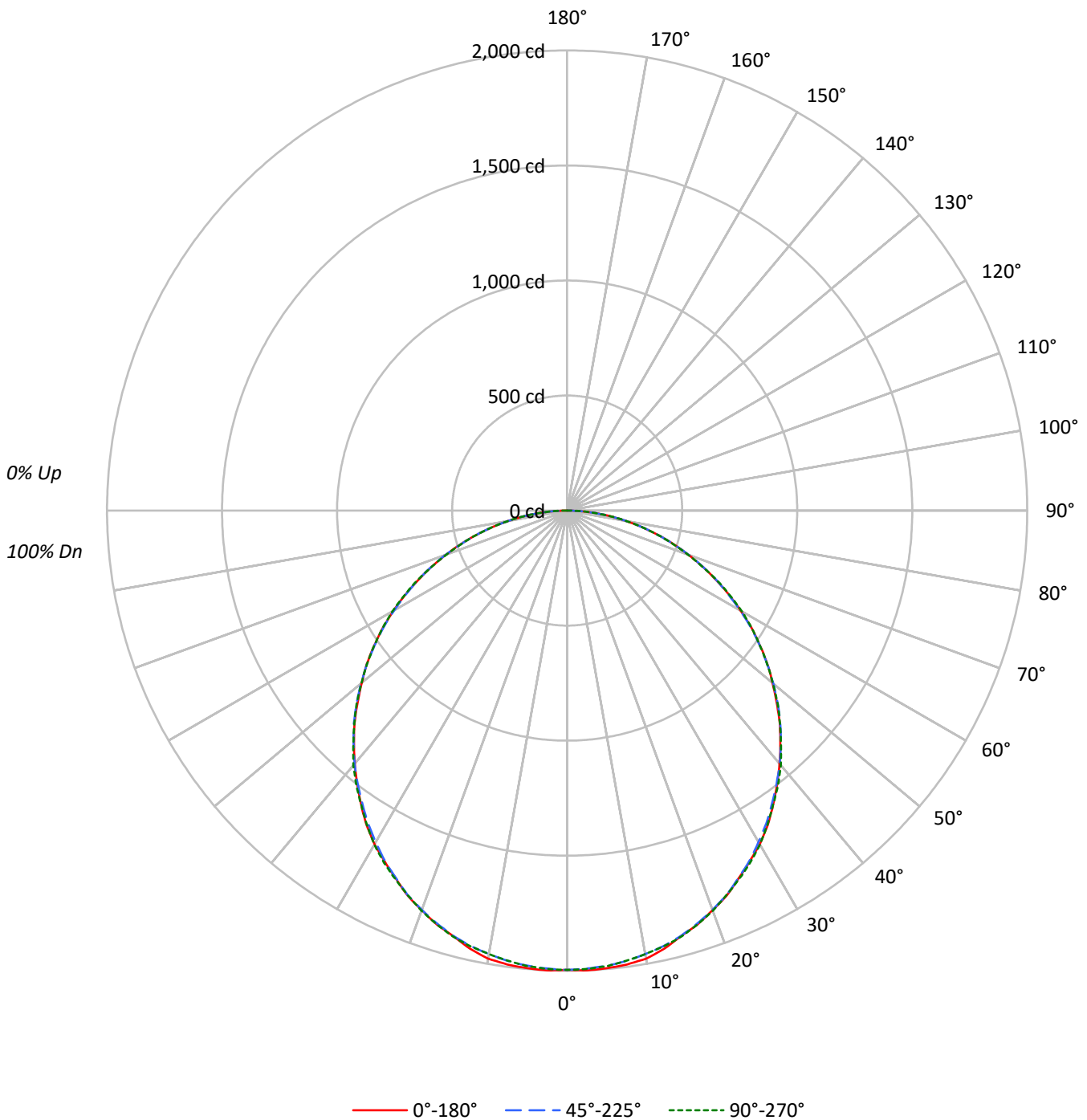
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2686	2686	2686
5°	2696	2682	2684
10°	2702	2674	2674
15°	2666	2665	2670
20°	2646	2644	2650
25°	2618	2616	2624
30°	2602	2585	2604
35°	2564	2551	2564
40°	2522	2525	2539
45°	2486	2494	2489
50°	2439	2448	2442
55°	2402	2395	2402
60°	2345	2338	2360
65°	2273	2282	2290
70°	2199	2210	2194
75°	2122	2122	2122
80°	2004	2004	2025
85°	1851	1871	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	3.3
10°-20°	539.6	9.4
20°-30°	813.2	14.2
30°-40°	974.0	17.1
40°-50°	1008.2	17.7
50°-60°	914.2	16.0
60°-70°	708.8	12.4
70°-80°	431.0	7.5
80°-90°	134.1	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°	1541.7	27.0
0°-40°	2515.7	44.0
0°-60°	4438.1	77.7
0°-90°	5712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	1996	1984	1986	1983	1987	190
15°	1914	1916	1913	1906	1917	541
25°	1763	1763	1762	1767	1767	814
35°	1561	1550	1553	1560	1561	977
45°	1307	1309	1311	1305	1308	1007
55°	1024	1018	1021	1025	1024	915
65°	714	718	717	714	719	708
75°	408	407	408	407	408	431
85°	120	118	121	120	117	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.4	1996.4	1996.4	1996.4	1996.4
2.5°	2000.5	1992.4	1992.4	1989.7	1993.7
5°	1996.4	1984.3	1985.6	1982.9	1987.0
7.5°	1989.7	1973.5	1974.9	1972.2	1973.5
10°	1977.6	1958.7	1957.3	1956.0	1957.3
12.5°	1950.6	1939.8	1938.5	1935.8	1939.8
15°	1914.2	1915.6	1912.9	1906.2	1916.9
17.5°	1885.9	1884.6	1881.9	1875.2	1885.9
20°	1848.2	1849.6	1846.9	1844.2	1850.9
22.5°	1811.9	1807.8	1809.2	1807.8	1809.2
25°	1763.4	1763.4	1762.0	1767.4	1767.4
27.5°	1718.9	1713.5	1716.2	1721.6	1724.3
30°	1674.5	1661.0	1663.7	1669.1	1675.8
32.5°	1621.9	1608.4	1611.1	1616.5	1619.2
35°	1561.3	1550.5	1553.2	1559.9	1561.3
37.5°	1499.3	1492.6	1495.3	1500.7	1504.7
40°	1436.0	1433.3	1437.4	1436.0	1445.4
42.5°	1371.4	1370.0	1374.0	1374.0	1375.4
45°	1306.7	1309.4	1310.7	1305.3	1308.0
47.5°	1235.3	1236.6	1242.0	1239.3	1240.7
50°	1165.2	1163.9	1169.3	1170.6	1166.6
52.5°	1097.9	1091.2	1096.5	1099.2	1096.5
55°	1023.8	1018.4	1021.1	1025.1	1023.8
57.5°	951.1	945.7	947.0	953.8	951.1
60°	871.6	870.2	868.9	874.3	877.0
62.5°	793.4	792.1	789.4	794.8	797.5
65°	714.0	718.0	716.7	714.0	719.4
67.5°	638.5	642.6	638.5	635.8	635.8
70°	559.0	563.1	561.7	559.0	557.7
72.5°	485.0	485.0	482.3	480.9	482.3
75°	408.2	406.8	408.2	406.8	408.2
77.5°	332.7	334.1	334.1	334.1	332.7
80°	258.6	258.6	258.6	260.0	261.3
82.5°	189.9	185.9	189.9	187.2	188.6
85°	119.9	118.5	121.2	119.9	117.2
87.5°	53.9	55.2	55.2	56.6	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)