

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: P293246

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

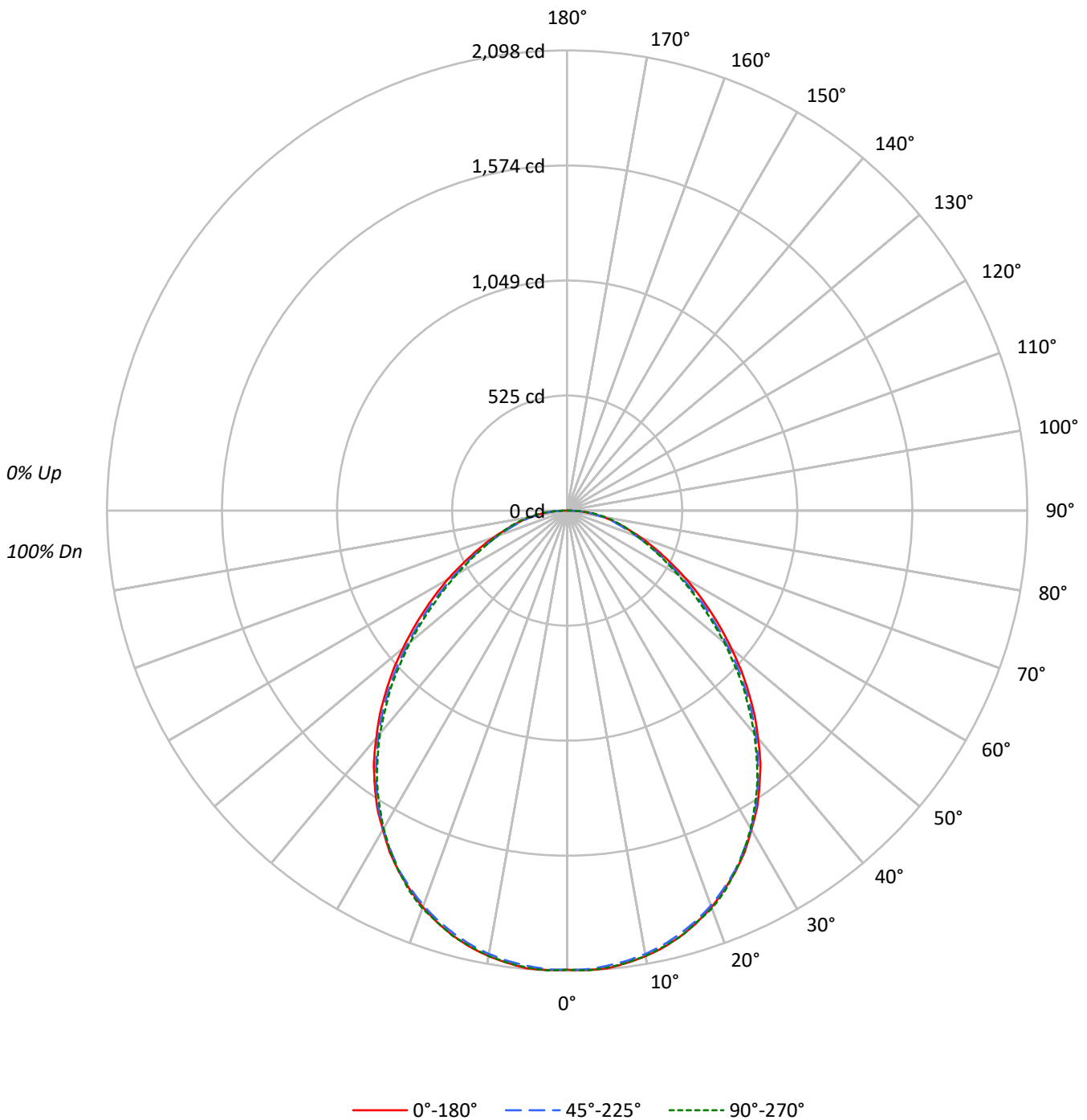
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2817	2817	2817
5°	2830	2814	2826
10°	2818	2804	2817
15°	2796	2781	2798
20°	2755	2744	2764
25°	2695	2689	2694
30°	2610	2605	2599
35°	2512	2493	2483
40°	2377	2350	2331
45°	2224	2183	2157
50°	2044	1989	1955
55°	1864	1795	1743
60°	1693	1602	1560
65°	1525	1439	1415
70°	1397	1306	1342
75°	1305	1245	1337
80°	1295	1271	1396
85°	1320	1331	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	4.0
10°-20°	563.3	11.4
20°-30°	832.2	16.9
30°-40°	946.1	19.2
40°-50°	883.5	17.9
50°-60°	687.1	13.9
60°-70°	455.9	9.3
70°-80°	263.8	5.4
80°-90°	95.9	1.9
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°	1593.6	32.4
0°-40°	2539.7	51.6
0°-60°	4110.3	83.4
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2095	2084	2084	2087	2092	199
15°	2007	1997	1996	1996	2009	566
25°	1816	1808	1811	1807	1815	835
35°	1529	1522	1518	1507	1512	955
45°	1169	1160	1147	1133	1133	901
55°	795	783	765	745	743	713
65°	479	464	452	444	444	479
75°	251	245	240	250	257	269
85°	86	84	86	98	99	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.5	2093.5	2093.5	2093.5	2093.5
2.5°	2096.6	2090.5	2093.5	2091.2	2098.2
5°	2095.1	2084.3	2083.5	2087.4	2092.0
7.5°	2080.5	2068.9	2071.2	2071.2	2078.9
10°	2062.8	2051.2	2052.7	2053.5	2062.0
12.5°	2038.9	2027.3	2028.1	2027.3	2035.8
15°	2007.3	1997.3	1996.5	1995.8	2008.9
17.5°	1968.8	1955.0	1959.6	1960.3	1967.3
20°	1924.2	1913.4	1916.5	1915.7	1930.3
22.5°	1871.0	1863.3	1865.6	1864.1	1878.0
25°	1815.6	1807.9	1811.0	1807.1	1814.8
27.5°	1753.2	1747.8	1744.8	1742.4	1747.8
30°	1680.1	1677.0	1677.0	1667.0	1673.1
32.5°	1610.8	1600.8	1600.8	1596.9	1593.1
35°	1529.2	1521.5	1517.6	1506.8	1511.5
37.5°	1447.5	1429.8	1428.3	1419.8	1419.8
40°	1353.6	1343.6	1338.2	1329.0	1327.4
42.5°	1264.3	1254.3	1245.0	1229.6	1226.6
45°	1168.8	1159.6	1147.3	1132.6	1133.4
47.5°	1074.1	1061.0	1049.5	1031.8	1029.5
50°	976.3	967.1	950.1	934.7	934.0
52.5°	884.7	870.1	854.7	836.2	836.2
55°	794.6	783.1	765.4	745.3	743.0
57.5°	708.4	697.6	677.6	662.9	659.1
60°	629.1	613.7	595.2	582.9	579.8
62.5°	549.8	535.9	522.0	509.7	509.0
65°	478.9	464.3	452.0	443.5	444.3
67.5°	415.0	402.7	388.8	386.5	387.3
70°	355.0	341.9	331.9	337.2	341.1
72.5°	298.0	291.0	284.1	291.8	297.2
75°	251.0	244.9	239.5	250.2	257.2
77.5°	207.9	203.3	202.5	211.7	217.9
80°	167.1	161.7	164.0	174.8	180.2
82.5°	127.0	123.2	124.0	137.1	140.9
85°	85.5	83.9	86.2	97.8	98.6
87.5°	45.4	45.4	47.0	53.9	51.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)