

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: P293498

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4984.0 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

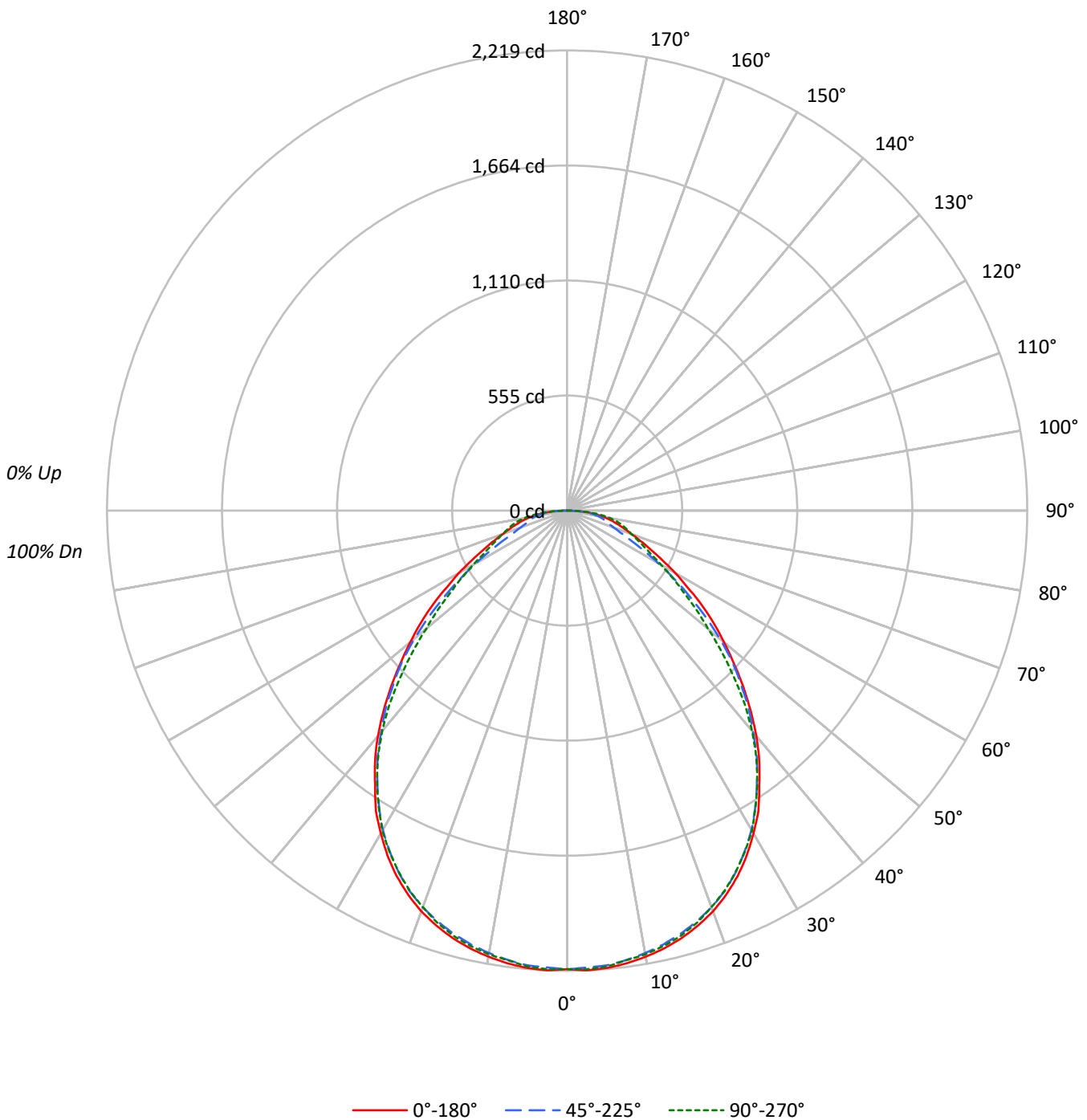
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2975	2975	2975
5°	2990	2973	2980
10°	2984	2960	2969
15°	2973	2943	2956
20°	2945	2915	2914
25°	2887	2856	2854
30°	2792	2763	2769
35°	2652	2622	2625
40°	2494	2451	2436
45°	2285	2255	2165
50°	2066	2010	1858
55°	1855	1689	1602
60°	1625	1359	1409
65°	1417	1069	1297
70°	1296	933	1296
75°	1297	993	1429
80°	1408	1169	1629
85°	1545	1320	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	4.2
10°-20°	597.6	12.0
20°-30°	886.1	17.8
30°-40°	999.7	20.1
40°-50°	905.4	18.2
50°-60°	653.2	13.1
60°-70°	390.0	7.8
70°-80°	241.1	4.8
80°-90°	101.6	2.0
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°	1693.1	34.0
0°-40°	2692.8	54.0
0°-60°	4251.4	85.3
0°-90°	4984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2214	2211	2201	2199	2207	210
15°	2134	2121	2113	2114	2122	602
25°	1945	1934	1924	1917	1923	893
35°	1615	1612	1596	1597	1598	1010
45°	1201	1193	1185	1156	1138	926
55°	791	766	720	684	683	706
65°	445	392	336	381	407	448
75°	250	216	191	238	275	266
85°	100	88	86	112	113	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2211.3	2211.3	2211.3	2211.3	2211.3
2.5°	2219.0	2212.9	2205.2	2209.8	2213.7
5°	2213.7	2210.6	2201.3	2199.0	2206.7
7.5°	2202.1	2194.4	2185.9	2189.8	2186.7
10°	2184.4	2177.5	2166.7	2167.5	2172.8
12.5°	2162.8	2154.4	2142.8	2145.9	2150.5
15°	2134.3	2121.3	2112.8	2113.6	2122.0
17.5°	2098.2	2088.1	2077.4	2079.7	2083.5
20°	2056.6	2051.2	2035.8	2031.2	2035.0
22.5°	2004.2	1994.2	1985.7	1983.4	1984.2
25°	1944.9	1934.2	1924.1	1917.2	1922.6
27.5°	1875.6	1866.4	1853.3	1851.0	1855.6
30°	1797.1	1790.2	1778.6	1775.5	1782.5
32.5°	1717.0	1705.5	1689.3	1689.3	1690.8
35°	1614.6	1612.3	1596.1	1596.9	1598.4
37.5°	1522.2	1511.4	1502.2	1493.0	1497.6
40°	1419.8	1407.5	1395.2	1389.0	1386.7
42.5°	1309.7	1300.5	1295.1	1272.8	1267.4
45°	1201.1	1193.4	1185.0	1155.7	1138.0
47.5°	1090.3	1088.7	1081.8	1030.2	1012.5
50°	987.1	984.8	960.1	905.5	887.8
52.5°	889.3	873.9	841.6	787.7	784.6
55°	790.8	766.1	719.9	684.5	683.0
57.5°	686.8	657.6	610.6	591.3	601.3
60°	603.7	559.0	505.1	507.4	523.6
62.5°	517.4	467.4	414.2	437.3	456.6
65°	445.0	391.9	335.7	381.1	407.3
67.5°	381.9	332.6	278.7	339.6	365.0
70°	329.5	289.5	237.1	301.1	329.5
72.5°	288.0	251.0	210.2	270.3	303.4
75°	249.5	216.4	191.0	237.9	274.9
77.5°	216.4	184.0	172.5	210.2	246.4
80°	181.7	152.5	150.9	183.3	210.2
82.5°	141.7	121.7	121.7	153.2	169.4
85°	100.1	87.8	85.5	111.6	113.2
87.5°	51.6	49.3	44.7	58.5	58.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)