

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: P293496

Luminaire Tested: **24GR-LD5-48-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293496
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4791.0 lumens
Efficiency: N/A
Efficacy: 145.1 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

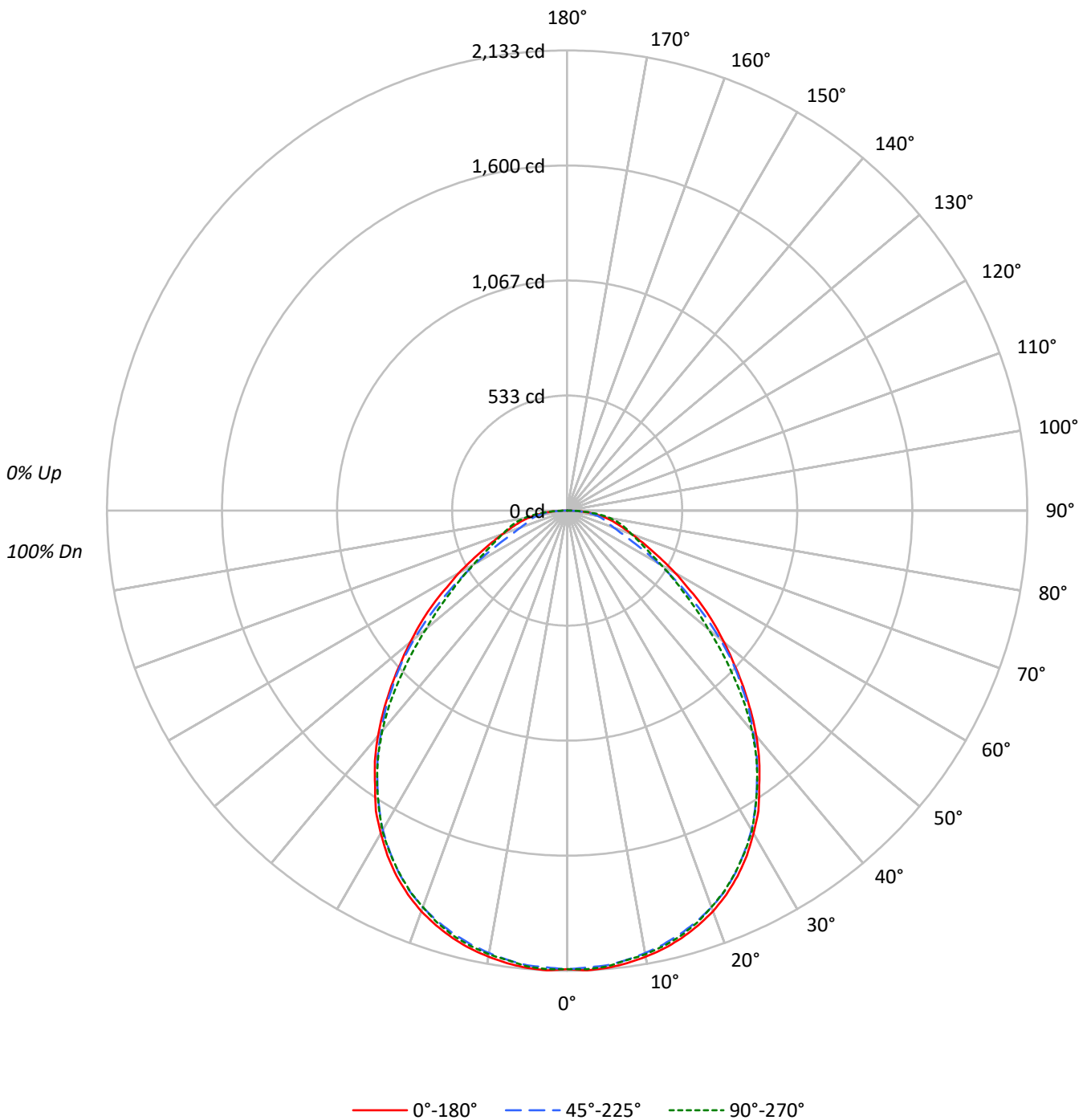
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2860	2860	2860
5°	2874	2858	2865
10°	2869	2846	2854
15°	2858	2829	2841
20°	2831	2802	2801
25°	2776	2746	2744
30°	2684	2656	2662
35°	2549	2520	2524
40°	2397	2356	2341
45°	2197	2167	2081
50°	1986	1932	1786
55°	1783	1623	1540
60°	1562	1306	1354
65°	1362	1027	1246
70°	1246	897	1246
75°	1247	954	1373
80°	1354	1124	1566
85°	1485	1269	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	4.2
10°-20°	574.5	12.0
20°-30°	851.8	17.8
30°-40°	960.9	20.1
40°-50°	870.3	18.2
50°-60°	627.9	13.1
60°-70°	374.9	7.8
70°-80°	231.7	4.8
80°-90°	97.6	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°	1627.6	34.0
0°-40°	2588.5	54.0
0°-60°	4086.8	85.3
0°-90°	4791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2128	2125	2116	2114	2121	202
15°	2052	2039	2031	2032	2040	578
25°	1870	1859	1850	1843	1848	859
35°	1552	1550	1534	1535	1537	971
45°	1155	1147	1139	1111	1094	890
55°	760	736	692	658	656	679
65°	428	377	323	366	392	430
75°	240	208	184	229	264	256
85°	96	84	82	107	109	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.7	2125.7	2125.7	2125.7	2125.7
2.5°	2133.1	2127.2	2119.8	2124.2	2127.9
5°	2127.9	2125.0	2116.1	2113.9	2121.3
7.5°	2116.8	2109.4	2101.3	2105.0	2102.0
10°	2099.8	2093.1	2082.8	2083.5	2088.7
12.5°	2079.1	2070.9	2059.8	2062.8	2067.2
15°	2051.7	2039.1	2031.0	2031.7	2039.9
17.5°	2016.9	2007.3	1996.9	1999.1	2002.8
20°	1976.9	1971.8	1957.0	1952.5	1956.2
22.5°	1926.6	1917.0	1908.8	1906.6	1907.4
25°	1869.6	1859.3	1849.6	1843.0	1848.2
27.5°	1803.0	1794.1	1781.5	1779.3	1783.8
30°	1727.5	1720.8	1709.7	1706.8	1713.4
32.5°	1650.5	1639.4	1623.9	1623.9	1625.4
35°	1552.1	1549.9	1534.3	1535.1	1536.6
37.5°	1463.3	1452.9	1444.0	1435.2	1439.6
40°	1364.8	1353.0	1341.2	1335.2	1333.0
42.5°	1259.0	1250.1	1244.9	1223.5	1218.3
45°	1154.6	1147.2	1139.1	1111.0	1093.9
47.5°	1048.1	1046.6	1039.9	990.3	973.3
50°	948.9	946.7	923.0	870.4	853.4
52.5°	854.9	840.1	809.0	757.2	754.2
55°	760.1	736.4	692.0	658.0	656.5
57.5°	660.2	632.1	586.9	568.4	578.1
60°	580.3	537.3	485.5	487.8	503.3
62.5°	497.4	449.3	398.2	420.4	438.9
65°	427.8	376.7	322.7	366.4	391.5
67.5°	367.1	319.7	267.9	326.4	350.8
70°	316.8	278.3	228.0	289.4	316.8
72.5°	276.8	241.3	202.1	259.8	291.6
75°	239.8	208.0	183.6	228.7	264.2
77.5°	208.0	176.9	165.8	202.1	236.8
80°	174.7	146.5	145.1	176.2	202.1
82.5°	136.2	116.9	116.9	147.3	162.8
85°	96.2	84.4	82.2	107.3	108.8
87.5°	49.6	47.4	42.9	56.3	56.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)