

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: P293244

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293244
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.0 lumens
Efficiency: N/A
Efficacy: 143.5 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

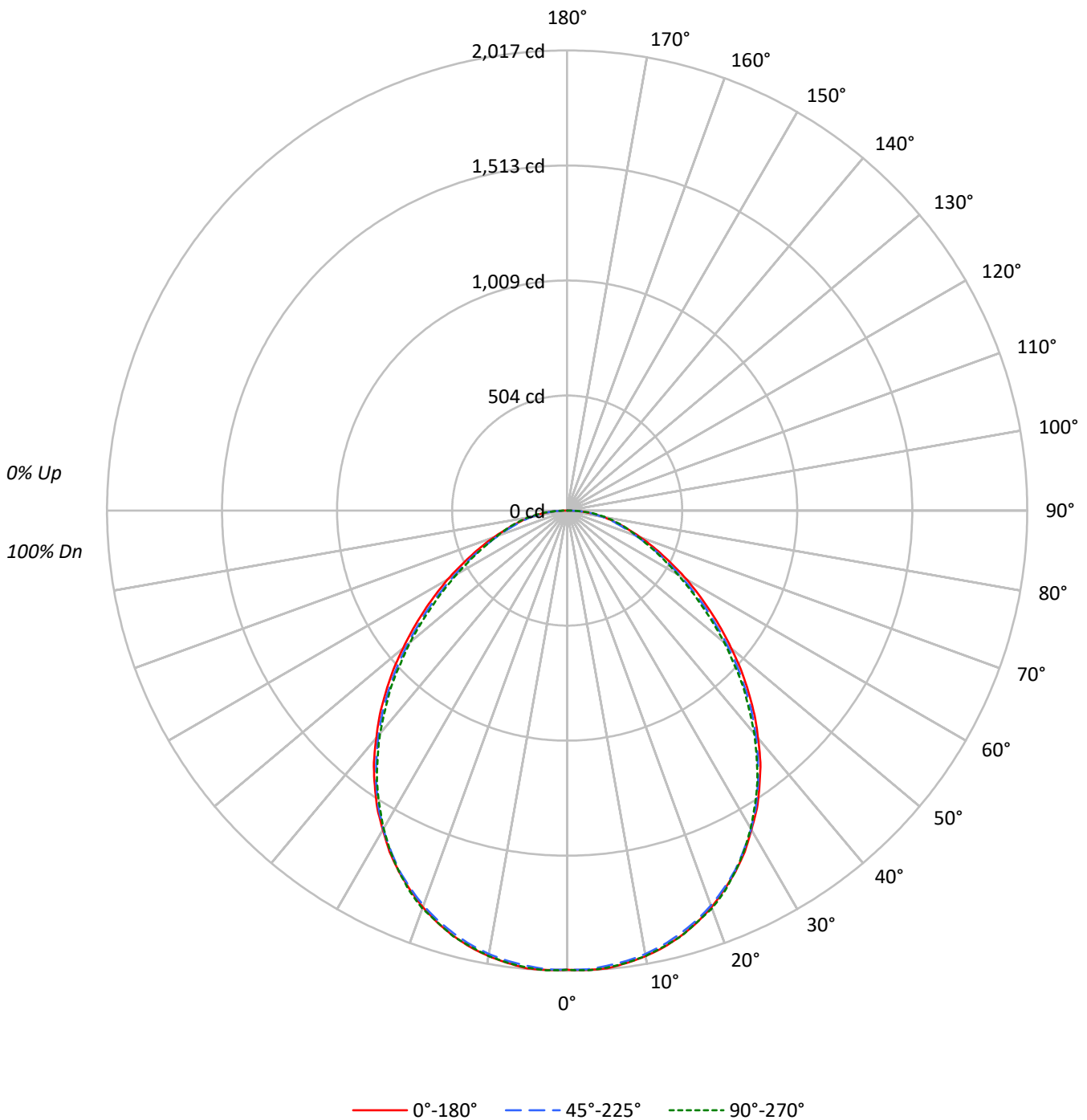
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2708	2708	2708
5°	2721	2706	2717
10°	2710	2696	2708
15°	2688	2674	2690
20°	2649	2638	2657
25°	2591	2585	2590
30°	2510	2505	2499
35°	2415	2397	2387
40°	2286	2260	2242
45°	2138	2099	2073
50°	1965	1912	1879
55°	1792	1726	1676
60°	1628	1540	1500
65°	1466	1383	1360
70°	1343	1255	1290
75°	1254	1197	1286
80°	1244	1222	1342
85°	1269	1280	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	4.0
10°-20°	541.6	11.4
20°-30°	800.1	16.9
30°-40°	909.6	19.2
40°-50°	849.4	17.9
50°-60°	660.6	13.9
60°-70°	438.3	9.3
70°-80°	253.7	5.4
80°-90°	92.2	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°	1532.1	32.4
0°-40°	2441.8	51.6
0°-60°	3951.8	83.4
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	2014	2004	2003	2007	2011	191
15°	1930	1920	1920	1919	1931	544
25°	1746	1738	1741	1737	1745	803
35°	1470	1463	1459	1449	1453	918
45°	1124	1115	1103	1089	1090	866
55°	764	753	736	717	714	685
65°	460	446	434	426	427	460
75°	241	235	230	241	247	258
85°	82	81	83	94	95	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.8	2012.8	2012.8	2012.8	2012.8
2.5°	2015.8	2009.8	2012.8	2010.6	2017.2
5°	2014.3	2003.9	2003.2	2006.9	2011.3
7.5°	2000.2	1989.1	1991.3	1991.3	1998.7
10°	1983.2	1972.1	1973.6	1974.3	1982.4
12.5°	1960.2	1949.1	1949.9	1949.1	1957.3
15°	1929.9	1920.3	1919.5	1918.8	1931.4
17.5°	1892.9	1879.6	1884.0	1884.7	1891.4
20°	1849.9	1839.6	1842.5	1841.8	1855.9
22.5°	1798.9	1791.5	1793.7	1792.2	1805.5
25°	1745.6	1738.2	1741.1	1737.4	1744.8
27.5°	1685.6	1680.4	1677.5	1675.2	1680.4
30°	1615.3	1612.3	1612.3	1602.7	1608.6
32.5°	1548.6	1539.0	1539.0	1535.3	1531.6
35°	1470.2	1462.8	1459.1	1448.7	1453.2
37.5°	1391.7	1374.7	1373.2	1365.1	1365.1
40°	1301.4	1291.8	1286.6	1277.7	1276.2
42.5°	1215.5	1205.9	1197.0	1182.2	1179.3
45°	1123.7	1114.8	1103.0	1088.9	1089.7
47.5°	1032.7	1020.1	1009.0	992.0	989.7
50°	938.7	929.8	913.5	898.7	897.9
52.5°	850.6	836.5	821.7	803.9	803.9
55°	764.0	752.9	735.8	716.6	714.4
57.5°	681.1	670.7	651.4	637.4	633.7
60°	604.8	590.0	572.2	560.4	557.4
62.5°	528.6	515.2	501.9	490.1	489.3
65°	460.4	446.4	434.5	426.4	427.1
67.5°	399.0	387.2	373.8	371.6	372.4
70°	341.3	328.7	319.1	324.2	327.9
72.5°	286.5	279.8	273.2	280.6	285.7
75°	241.3	235.4	230.2	240.6	247.3
77.5°	199.9	195.4	194.7	203.6	209.5
80°	160.6	155.5	157.7	168.0	173.2
82.5°	122.1	118.4	119.2	131.8	135.5
85°	82.2	80.7	82.9	94.0	94.8
87.5°	43.7	43.7	45.2	51.8	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)