

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: P293223

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293223
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-LD5-34-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 152.1 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

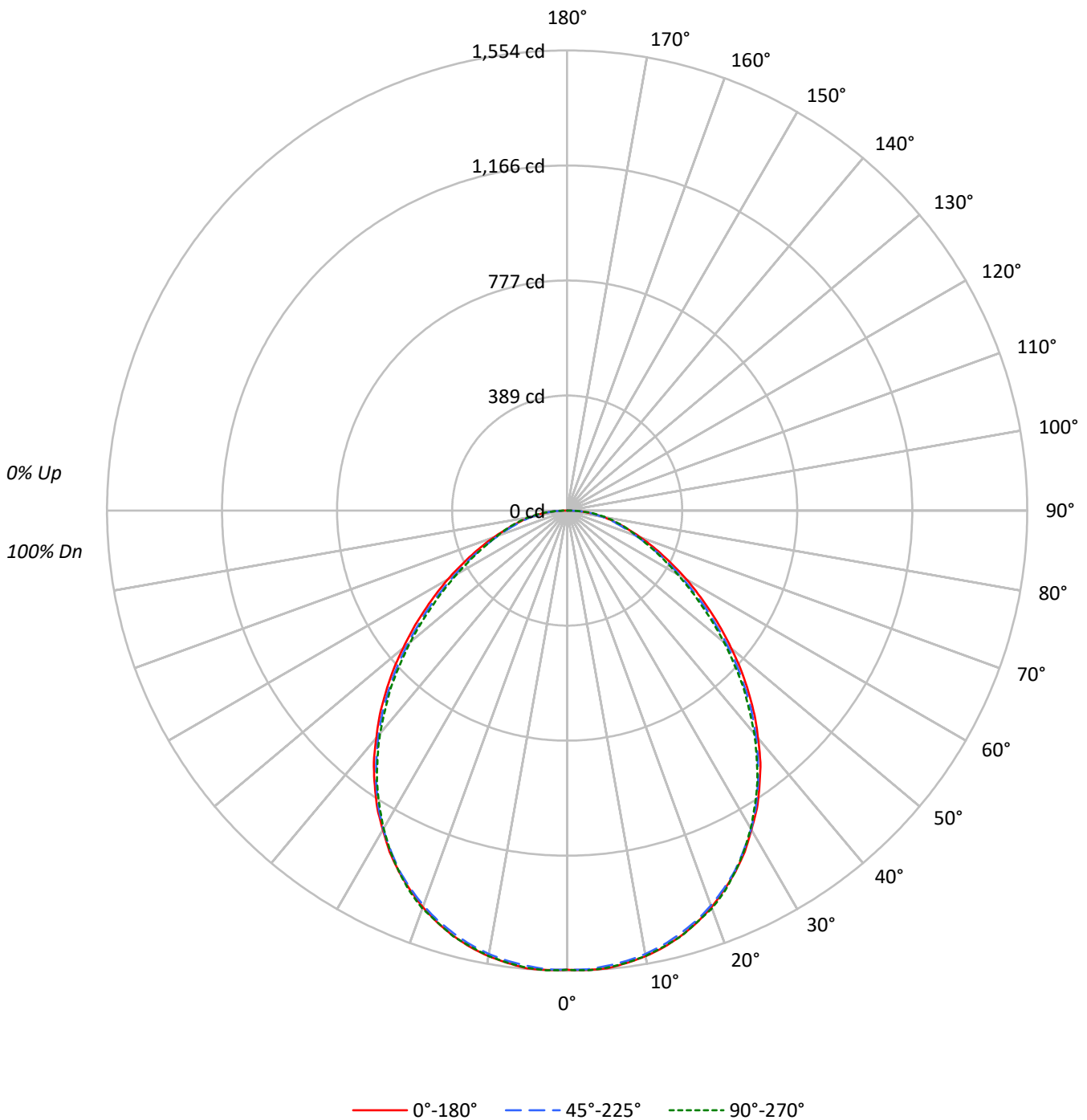
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2087	2087	2087
5°	2096	2085	2093
10°	2088	2078	2087
15°	2071	2060	2073
20°	2041	2033	2047
25°	1997	1992	1996
30°	1934	1930	1926
35°	1861	1847	1839
40°	1761	1741	1727
45°	1647	1617	1598
50°	1514	1473	1448
55°	1381	1330	1291
60°	1254	1186	1156
65°	1130	1066	1048
70°	1034	967	994
75°	966	922	990
80°	959	941	1034
85°	977	986	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	4.0
10°-20°	417.3	11.4
20°-30°	616.4	16.9
30°-40°	700.8	19.2
40°-50°	654.5	17.9
50°-60°	509.0	13.9
60°-70°	337.7	9.3
70°-80°	195.4	5.4
80°-90°	71.1	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°	1180.5	32.4
0°-40°	1881.3	51.6
0°-60°	3044.8	83.4
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1552	1544	1543	1546	1550	147
15°	1487	1480	1479	1478	1488	419
25°	1345	1339	1342	1339	1344	618
35°	1133	1127	1124	1116	1120	707
45°	866	859	850	839	840	667
55°	589	580	567	552	550	528
65°	355	344	335	328	329	355
75°	186	181	177	185	190	199
85°	63	62	64	72	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.8	1550.8	1550.8	1550.8	1550.8
2.5°	1553.1	1548.5	1550.8	1549.1	1554.2
5°	1552.0	1544.0	1543.4	1546.3	1549.7
7.5°	1541.1	1532.6	1534.3	1534.3	1540.0
10°	1528.0	1519.5	1520.6	1521.2	1527.4
12.5°	1510.3	1501.8	1502.3	1501.8	1508.0
15°	1486.9	1479.5	1479.0	1478.4	1488.1
17.5°	1458.4	1448.2	1451.6	1452.2	1457.3
20°	1425.3	1417.4	1419.6	1419.1	1429.9
22.5°	1386.0	1380.3	1382.0	1380.9	1391.1
25°	1344.9	1339.2	1341.5	1338.6	1344.4
27.5°	1298.7	1294.7	1292.4	1290.7	1294.7
30°	1244.5	1242.3	1242.3	1234.8	1239.4
32.5°	1193.2	1185.8	1185.8	1182.9	1180.1
35°	1132.7	1127.0	1124.2	1116.2	1119.6
37.5°	1072.3	1059.2	1058.0	1051.8	1051.8
40°	1002.7	995.3	991.3	984.5	983.3
42.5°	936.5	929.1	922.3	910.9	908.6
45°	865.8	859.0	849.8	839.0	839.6
47.5°	795.7	786.0	777.4	764.3	762.6
50°	723.2	716.4	703.8	692.4	691.9
52.5°	655.4	644.5	633.1	619.4	619.4
55°	588.6	580.1	566.9	552.1	550.4
57.5°	524.7	516.8	501.9	491.1	488.2
60°	466.0	454.6	440.9	431.8	429.5
62.5°	407.2	397.0	386.7	377.6	377.0
65°	354.8	343.9	334.8	328.5	329.1
67.5°	307.4	298.3	288.0	286.3	286.9
70°	262.9	253.2	245.8	249.8	252.7
72.5°	220.7	215.6	210.5	216.2	220.2
75°	185.9	181.4	177.4	185.4	190.5
77.5°	154.0	150.6	150.0	156.9	161.4
80°	123.8	119.8	121.5	129.5	133.5
82.5°	94.1	91.3	91.8	101.5	104.4
85°	63.3	62.2	63.9	72.4	73.0
87.5°	33.7	33.7	34.8	39.9	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)