

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: P293221

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293221
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 153.7 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

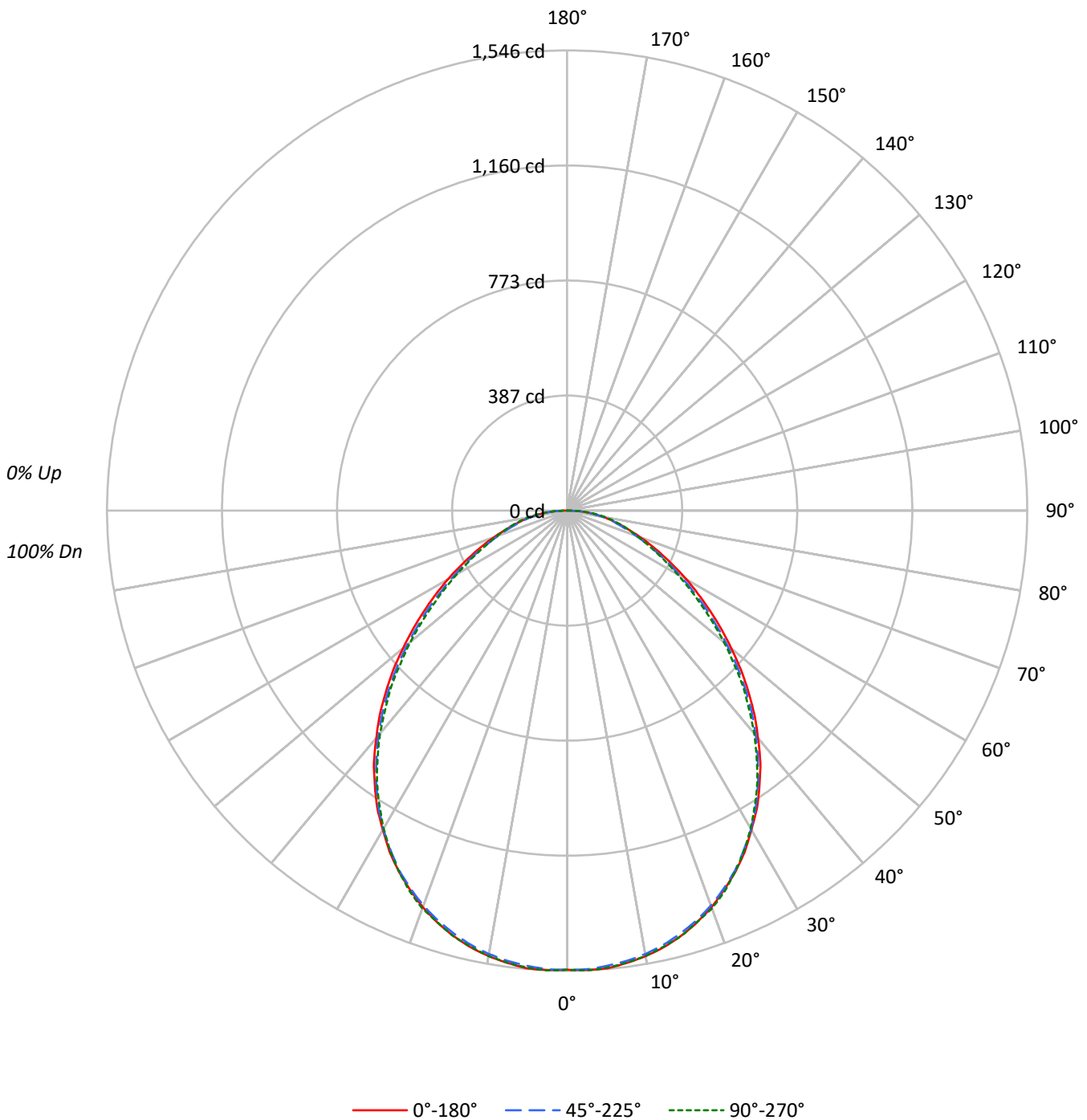
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	2076	2076	2076
5°	2085	2074	2082
10°	2077	2067	2076
15°	2060	2049	2062
20°	2030	2022	2037
25°	1986	1981	1985
30°	1924	1920	1916
35°	1851	1837	1829
40°	1752	1732	1718
45°	1639	1609	1589
50°	1506	1466	1441
55°	1374	1323	1284
60°	1248	1180	1150
65°	1124	1060	1042
70°	1029	962	989
75°	962	918	985
80°	954	937	1029
85°	973	980	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.0
10°-20°	415.1	11.4
20°-30°	613.2	16.9
30°-40°	697.2	19.2
40°-50°	651.1	17.9
50°-60°	506.3	13.9
60°-70°	335.9	9.3
70°-80°	194.4	5.4
80°-90°	70.7	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°	1174.3	32.4
0°-40°	1871.5	51.6
0°-60°	3028.9	83.4
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1544	1536	1535	1538	1542	147
15°	1479	1472	1471	1471	1480	417
25°	1338	1332	1334	1332	1337	615
35°	1127	1121	1118	1110	1114	704
45°	861	854	845	835	835	664
55°	586	577	564	549	548	525
65°	353	342	333	327	327	353
75°	185	180	176	184	190	198
85°	63	62	64	72	73	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.7	1542.7	1542.7	1542.7	1542.7
2.5°	1545.0	1540.5	1542.7	1541.0	1546.2
5°	1543.9	1535.9	1535.4	1538.2	1541.6
7.5°	1533.1	1524.6	1526.3	1526.3	1532.0
10°	1520.1	1511.5	1512.7	1513.2	1519.5
12.5°	1502.5	1494.0	1494.5	1494.0	1500.2
15°	1479.2	1471.8	1471.3	1470.7	1480.3
17.5°	1450.8	1440.6	1444.0	1444.6	1449.7
20°	1417.9	1410.0	1412.2	1411.7	1422.5
22.5°	1378.8	1373.1	1374.8	1373.7	1383.9
25°	1337.9	1332.2	1334.5	1331.7	1337.4
27.5°	1292.0	1288.0	1285.7	1284.0	1288.0
30°	1238.1	1235.8	1235.8	1228.4	1233.0
32.5°	1187.0	1179.6	1179.6	1176.8	1173.9
35°	1126.8	1121.2	1118.3	1110.4	1113.8
37.5°	1066.7	1053.7	1052.5	1046.3	1046.3
40°	997.5	990.1	986.1	979.3	978.2
42.5°	931.7	924.3	917.5	906.1	903.9
45°	861.3	854.5	845.4	834.6	835.2
47.5°	791.5	781.9	773.4	760.3	758.6
50°	719.5	712.6	700.2	688.8	688.3
52.5°	651.9	641.2	629.8	616.2	616.2
55°	585.6	577.0	564.0	549.2	547.5
57.5°	522.0	514.1	499.3	488.5	485.7
60°	463.6	452.2	438.6	429.5	427.2
62.5°	405.1	394.9	384.7	375.6	375.0
65°	352.9	342.1	333.1	326.8	327.4
67.5°	305.8	296.7	286.5	284.8	285.4
70°	261.6	251.9	244.5	248.5	251.4
72.5°	219.6	214.5	209.4	215.0	219.0
75°	185.0	180.4	176.5	184.4	189.5
77.5°	153.2	149.8	149.2	156.0	160.6
80°	123.1	119.2	120.9	128.8	132.8
82.5°	93.6	90.8	91.4	101.0	103.8
85°	63.0	61.8	63.5	72.1	72.6
87.5°	33.5	33.5	34.6	39.7	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)