

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: P293222

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293222
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 154.1 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

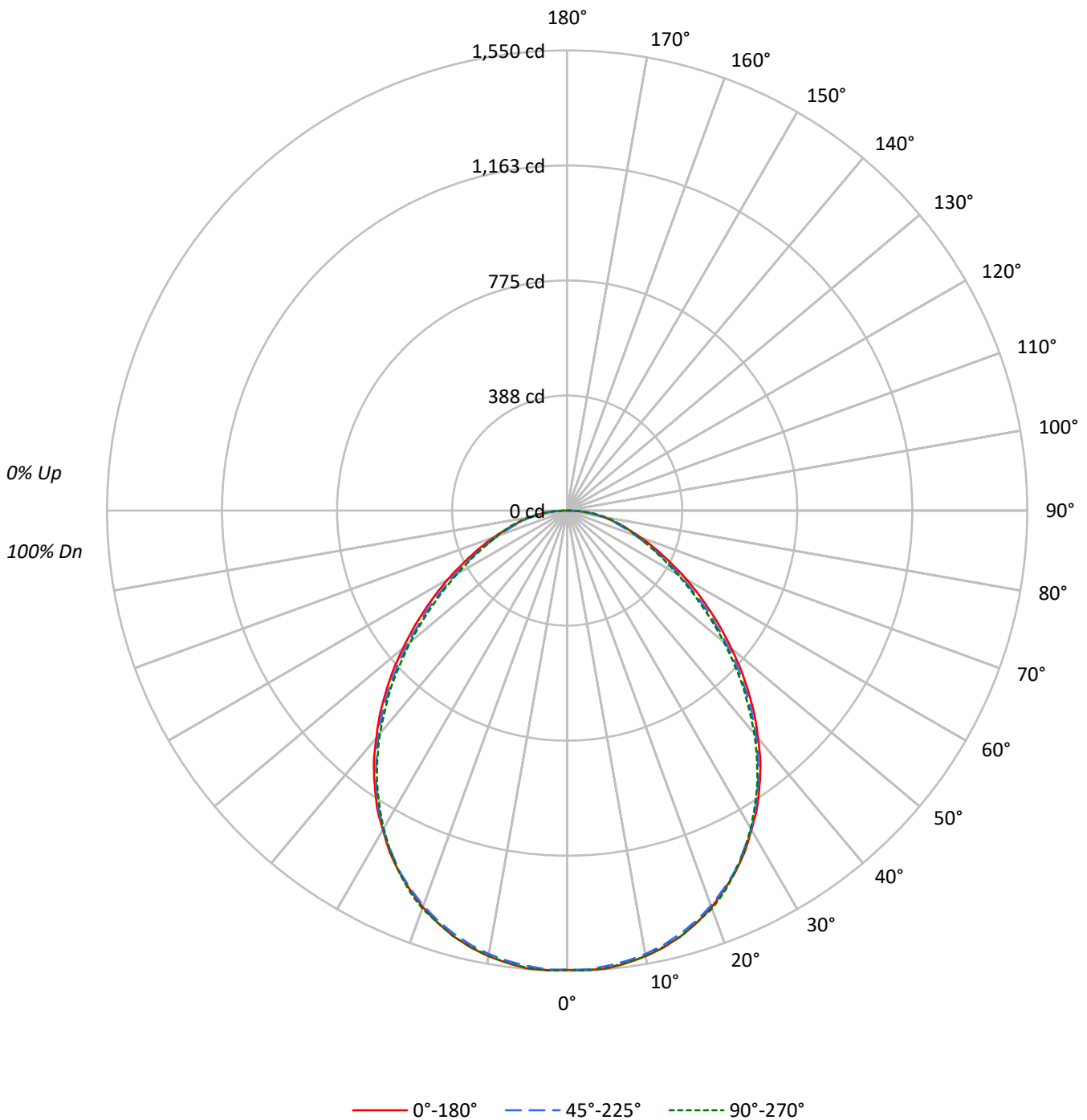
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2081	2081	2081
5°	2091	2079	2088
10°	2082	2072	2082
15°	2066	2055	2068
20°	2036	2028	2042
25°	1992	1987	1991
30°	1929	1925	1921
35°	1856	1842	1835
40°	1757	1737	1723
45°	1643	1613	1594
50°	1510	1470	1445
55°	1377	1327	1288
60°	1251	1183	1153
65°	1127	1063	1045
70°	1032	965	991
75°	964	920	988
80°	957	939	1031
85°	976	983	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	4.0
10°-20°	416.2	11.4
20°-30°	614.9	16.9
30°-40°	699.1	19.2
40°-50°	652.9	17.9
50°-60°	507.7	13.9
60°-70°	336.9	9.3
70°-80°	194.9	5.4
80°-90°	70.9	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°	1177.6	32.4
0°-40°	1876.7	51.6
0°-60°	3037.3	83.4
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1548	1540	1540	1542	1546	147
15°	1483	1476	1475	1475	1484	418
25°	1342	1336	1338	1335	1341	617
35°	1130	1124	1121	1114	1117	705
45°	864	857	848	837	838	665
55°	587	579	566	551	549	527
65°	354	343	334	328	328	354
75°	186	181	177	185	190	198
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°	1547.0	1547.0	1547.0	1547.0	1547.0
2.5°	1549.3	1544.7	1547.0	1545.3	1550.4
5°	1548.1	1540.2	1539.6	1542.4	1545.9
7.5°	1537.3	1528.8	1530.5	1530.5	1536.2
10°	1524.2	1515.7	1516.8	1517.4	1523.7
12.5°	1506.6	1498.1	1498.6	1498.1	1504.3
15°	1483.3	1475.9	1475.3	1474.7	1484.4
17.5°	1454.8	1444.6	1448.0	1448.6	1453.7
20°	1421.8	1413.9	1416.1	1415.6	1426.4
22.5°	1382.6	1376.9	1378.6	1377.4	1387.7
25°	1341.6	1335.9	1338.2	1335.3	1341.0
27.5°	1295.5	1291.5	1289.3	1287.6	1291.5
30°	1241.5	1239.2	1239.2	1231.8	1236.3
32.5°	1190.3	1182.9	1182.9	1180.0	1177.2
35°	1130.0	1124.3	1121.4	1113.5	1116.9
37.5°	1069.6	1056.6	1055.4	1049.2	1049.2
40°	1000.2	992.8	988.9	982.0	980.9
42.5°	934.2	926.8	920.0	908.6	906.4
45°	863.7	856.9	847.7	836.9	837.5
47.5°	793.7	784.0	775.5	762.4	760.7
50°	721.4	714.6	702.1	690.7	690.1
52.5°	653.7	642.9	631.5	617.9	617.9
55°	587.2	578.6	565.5	550.8	549.0
57.5°	523.4	515.5	500.7	489.9	487.0
60°	464.8	453.5	439.8	430.7	428.4
62.5°	406.2	396.0	385.8	376.7	376.1
65°	353.9	343.1	334.0	327.7	328.3
67.5°	306.7	297.6	287.3	285.6	286.2
70°	262.3	252.6	245.2	249.2	252.0
72.5°	220.2	215.1	209.9	215.6	219.6
75°	185.5	180.9	176.9	184.9	190.0
77.5°	153.6	150.2	149.6	156.5	161.0
80°	123.5	119.5	121.2	129.2	133.1
82.5°	93.9	91.0	91.6	101.3	104.1
85°	63.2	62.0	63.7	72.3	72.8
87.5°	33.6	33.6	34.7	39.8	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)