

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: P290732

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

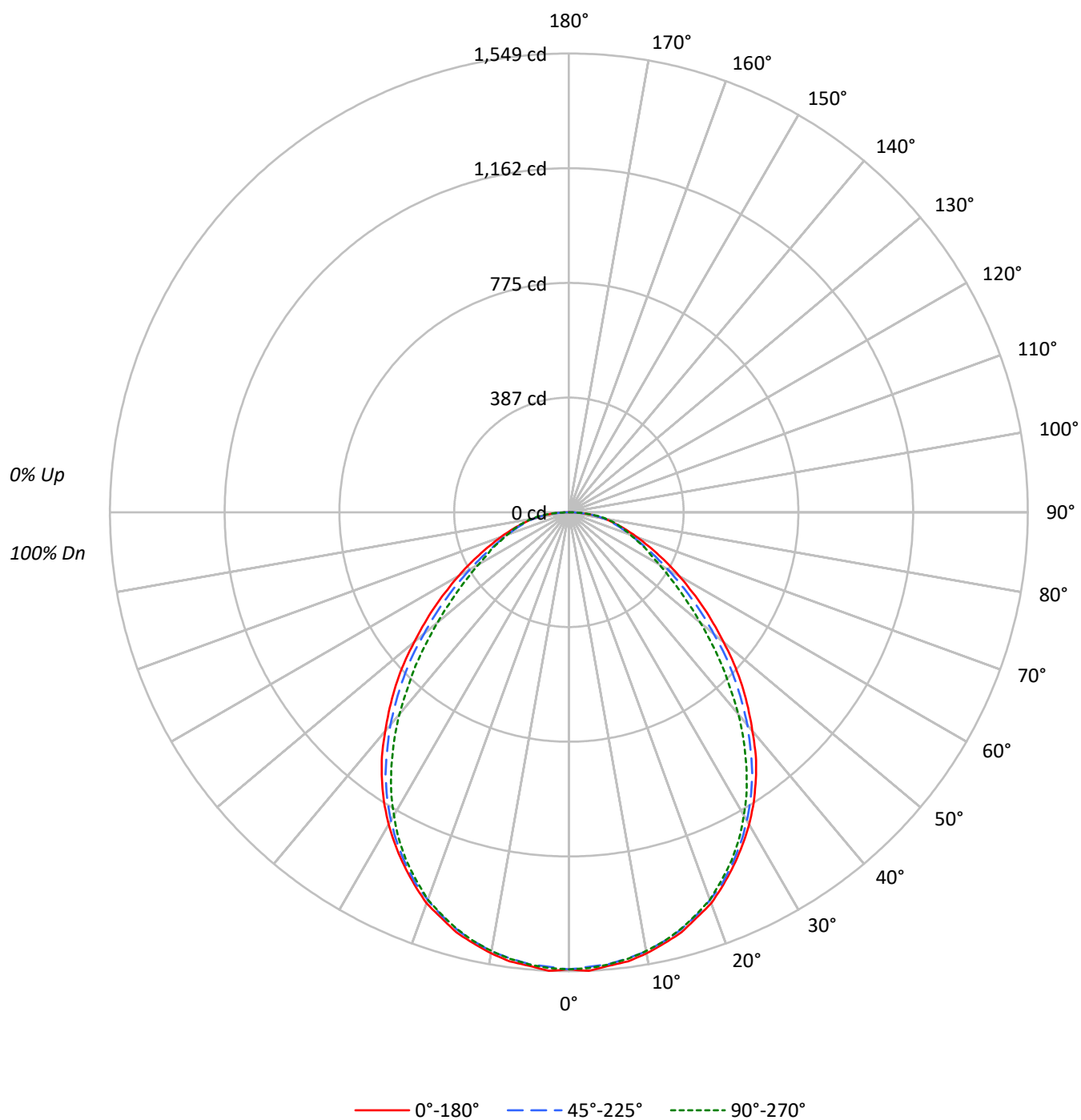
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4152	4152	4152
5°	4151	4136	4138
10°	4130	4111	4109
15°	4088	4064	4058
20°	4022	3989	3984
25°	3907	3881	3853
30°	3780	3734	3670
35°	3614	3545	3428
40°	3384	3290	3127
45°	3143	3002	2783
50°	2851	2673	2423
55°	2579	2361	2118
60°	2315	2070	1888
65°	2078	1848	1808
70°	1918	1720	1739
75°	1832	1725	1824
80°	1852	1841	1987
85°	1917	1893	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	4.2
10°-20°	411.8	12.0
20°-30°	601.4	17.5
30°-40°	670.1	19.5
40°-50°	603.8	17.6
50°-60°	451.3	13.2
60°-70°	297.7	8.7
70°-80°	181.7	5.3
80°-90°	67.4	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°	1158.9	33.8
0°-40°	1829.0	53.3
0°-60°	2884.1	84.1
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1537	1535	1531	1539	1532	146
15°	1468	1462	1459	1468	1456	413
25°	1316	1311	1307	1309	1298	606
35°	1100	1091	1079	1060	1044	686
45°	826	817	789	753	731	636
55°	550	541	503	462	451	492
65°	326	316	290	278	284	327
75°	176	173	166	171	175	188
85°	62	60	61	68	68	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1549.3	1542.2	1535.9	1545.4	1539.9
5°	1536.7	1535.1	1531.2	1539.1	1532.0
7.5°	1528.9	1523.3	1518.6	1528.1	1520.2
10°	1511.5	1508.4	1504.5	1512.3	1503.7
12.5°	1490.3	1487.2	1483.2	1492.7	1483.2
15°	1467.5	1462.0	1458.9	1467.5	1456.5
17.5°	1434.5	1432.1	1427.4	1436.1	1425.0
20°	1404.6	1395.9	1392.8	1399.1	1391.2
22.5°	1361.3	1355.0	1354.3	1358.2	1344.8
25°	1315.7	1311.0	1307.1	1309.4	1297.6
27.5°	1267.8	1261.5	1256.7	1256.0	1243.4
30°	1216.6	1208.8	1201.7	1195.4	1181.2
32.5°	1160.8	1151.4	1141.9	1131.7	1116.8
35°	1100.2	1090.8	1079.0	1060.1	1043.6
37.5°	1036.5	1025.5	1006.7	984.6	968.1
40°	963.4	957.9	936.7	908.3	890.3
42.5°	895.0	888.7	861.9	830.5	806.1
45°	825.8	817.1	788.8	752.6	731.4
47.5°	755.0	746.3	714.9	670.1	651.2
50°	681.1	676.3	638.6	597.7	578.8
52.5°	613.4	607.9	569.4	528.5	511.2
55°	549.7	541.1	503.3	461.6	451.4
57.5°	486.0	476.6	441.2	405.8	398.7
60°	430.2	418.4	384.6	357.0	350.8
62.5°	377.5	364.1	335.8	314.6	311.4
65°	326.4	316.2	290.2	278.4	283.9
67.5°	282.3	272.1	253.2	248.5	246.9
70°	243.8	234.4	218.6	220.2	221.0
72.5°	208.4	202.9	191.1	195.0	198.2
75°	176.2	173.0	165.9	171.4	175.4
77.5°	147.1	144.7	141.6	146.3	152.6
80°	119.5	118.0	118.8	121.9	128.2
82.5°	92.0	88.9	91.2	97.5	101.5
85°	62.1	59.8	61.3	67.6	68.4
87.5°	29.1	29.1	28.3	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)