

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: P290728

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290728
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3127.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

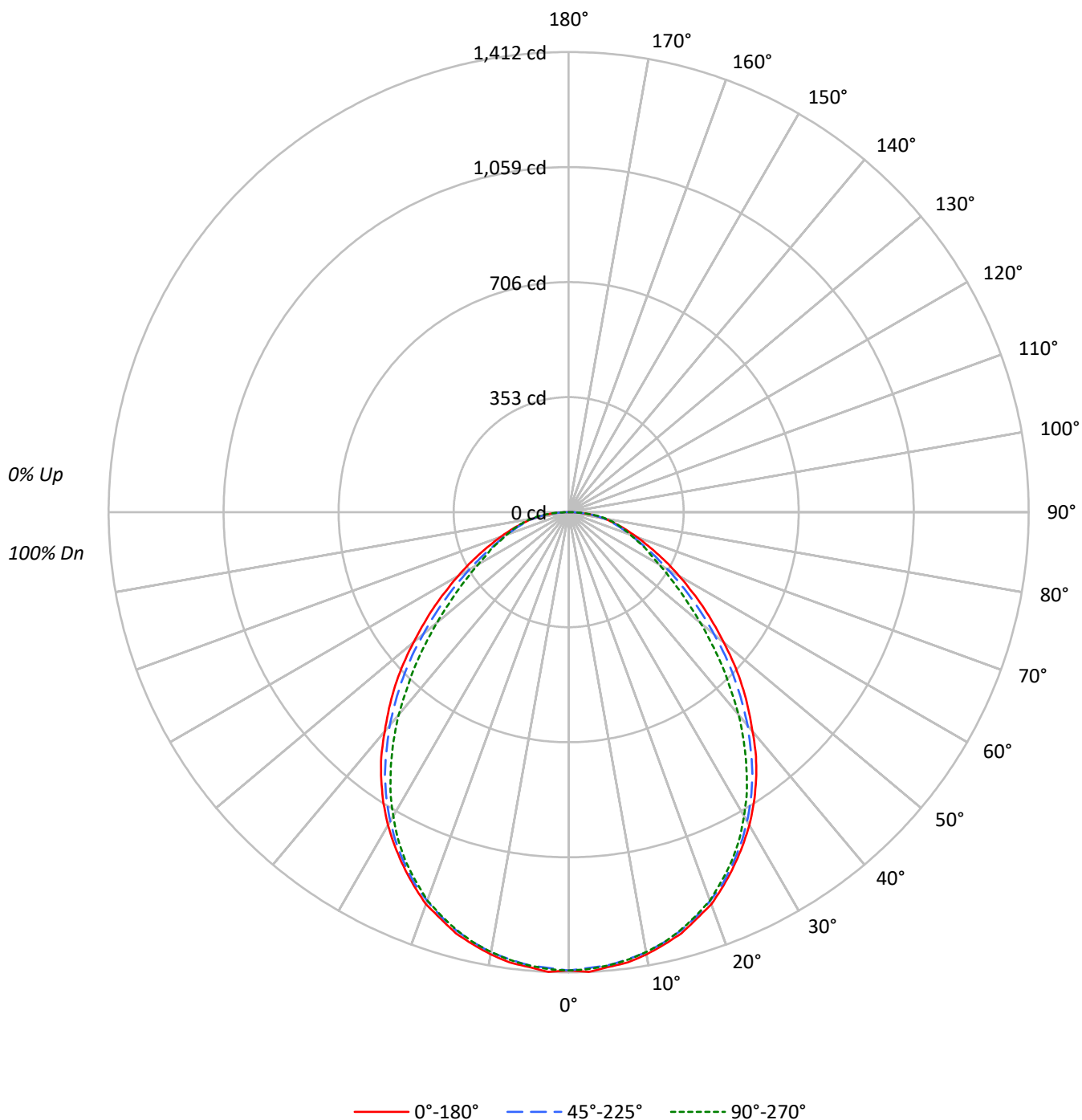
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3784	3784	3784
5°	3783	3770	3772
10°	3764	3747	3745
15°	3726	3704	3698
20°	3666	3635	3631
25°	3560	3537	3512
30°	3445	3403	3345
35°	3294	3231	3124
40°	3084	2999	2850
45°	2864	2736	2537
50°	2599	2436	2208
55°	2350	2152	1930
60°	2110	1886	1721
65°	1894	1684	1648
70°	1748	1568	1585
75°	1670	1572	1661
80°	1688	1677	1810
85°	1748	1726	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	4.2
10°-20°	375.3	12.0
20°-30°	548.1	17.5
30°-40°	610.7	19.5
40°-50°	550.3	17.6
50°-60°	411.3	13.2
60°-70°	271.3	8.7
70°-80°	165.6	5.3
80°-90°	61.4	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°	1056.2	33.8
0°-40°	1666.9	53.3
0°-60°	2628.6	84.1
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1401	1399	1396	1403	1396	133
15°	1338	1332	1330	1338	1327	376
25°	1199	1195	1191	1193	1183	552
35°	1003	994	983	966	951	625
45°	753	745	719	686	667	579
55°	501	493	459	421	411	449
65°	298	288	264	254	259	298
75°	161	158	151	156	160	171
85°	57	54	56	62	62	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1412.0	1405.6	1399.8	1408.4	1403.4
5°	1400.6	1399.1	1395.5	1402.7	1396.3
7.5°	1393.4	1388.4	1384.1	1392.7	1385.5
10°	1377.6	1374.8	1371.2	1378.3	1370.5
12.5°	1358.3	1355.4	1351.8	1360.4	1351.8
15°	1337.5	1332.5	1329.6	1337.5	1327.4
17.5°	1307.4	1305.2	1300.9	1308.8	1298.8
20°	1280.1	1272.3	1269.4	1275.1	1268.0
22.5°	1240.7	1235.0	1234.3	1237.9	1225.7
25°	1199.1	1194.8	1191.3	1193.4	1182.7
27.5°	1155.4	1149.7	1145.4	1144.7	1133.2
30°	1108.8	1101.7	1095.2	1089.5	1076.6
32.5°	1057.9	1049.3	1040.7	1031.4	1017.8
35°	1002.8	994.2	983.4	966.2	951.1
37.5°	944.7	934.7	917.5	897.4	882.3
40°	878.0	873.0	853.7	827.9	811.4
42.5°	815.7	809.9	785.6	756.9	734.7
45°	752.6	744.7	718.9	685.9	666.6
47.5°	688.1	680.2	651.5	610.7	593.5
50°	620.7	616.4	582.0	544.7	527.5
52.5°	559.1	554.1	518.9	481.7	465.9
55°	501.0	493.1	458.7	420.7	411.4
57.5°	443.0	434.4	402.1	369.9	363.4
60°	392.1	381.3	350.5	325.4	319.7
62.5°	344.0	331.9	306.1	286.7	283.8
65°	297.5	288.1	264.5	253.7	258.8
67.5°	257.3	248.0	230.8	226.5	225.1
70°	222.2	213.6	199.3	200.7	201.4
72.5°	189.9	184.9	174.2	177.8	180.6
75°	160.6	157.7	151.2	156.3	159.8
77.5°	134.0	131.9	129.0	133.3	139.1
80°	108.9	107.5	108.2	111.1	116.8
82.5°	83.9	81.0	83.1	88.9	92.5
85°	56.6	54.5	55.9	61.6	62.4
87.5°	26.5	26.5	25.8	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)