

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: P290628

Luminaire Tested: **14GR-LD5-36-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290628
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

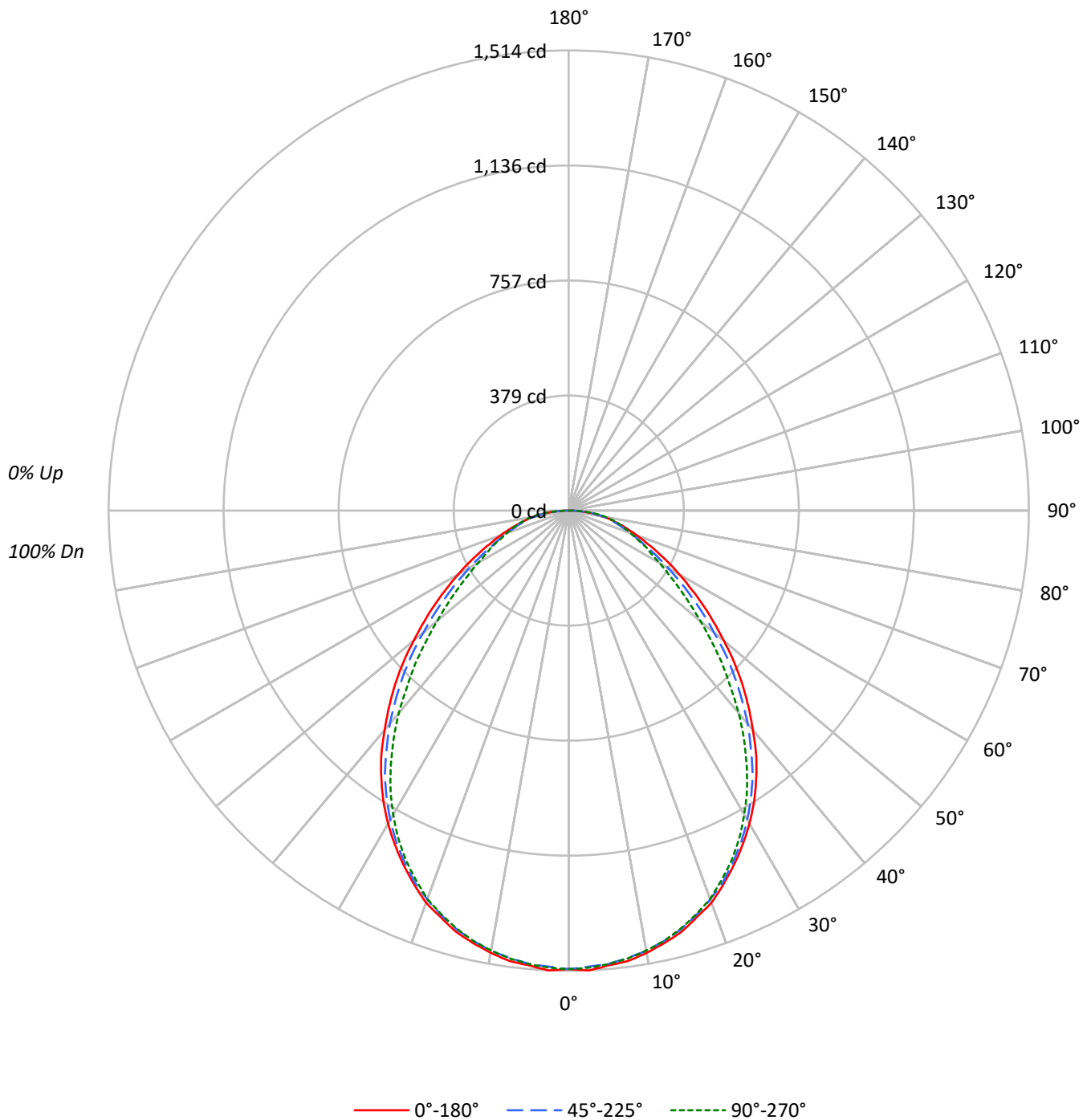
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4059	4059	4059
5°	4058	4043	4045
10°	4038	4019	4016
15°	3997	3973	3967
20°	3932	3899	3895
25°	3819	3794	3766
30°	3695	3650	3588
35°	3533	3465	3351
40°	3308	3216	3057
45°	3072	2935	2721
50°	2787	2614	2369
55°	2521	2308	2070
60°	2263	2023	1845
65°	2032	1806	1767
70°	1875	1681	1699
75°	1790	1686	1782
80°	1812	1799	1942
85°	1874	1853	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.2
10°-20°	402.6	12.0
20°-30°	587.9	17.5
30°-40°	655.1	19.5
40°-50°	590.2	17.6
50°-60°	441.2	13.2
60°-70°	291.0	8.7
70°-80°	177.7	5.3
80°-90°	65.9	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°	1132.8	33.8
0°-40°	1787.9	53.3
0°-60°	2819.4	84.1
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1502	1501	1497	1504	1498	143
15°	1435	1429	1426	1435	1424	404
25°	1286	1282	1278	1280	1268	592
35°	1076	1066	1055	1036	1020	671
45°	807	799	771	736	715	621
55°	537	529	492	451	441	481
65°	319	309	284	272	278	320
75°	172	169	162	168	171	184
85°	61	58	60	66	67	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1514.5	1507.6	1501.5	1510.7	1505.3
5°	1502.2	1500.7	1496.8	1504.5	1497.6
7.5°	1494.5	1489.2	1484.5	1493.8	1486.1
10°	1477.6	1474.6	1470.7	1478.4	1469.9
12.5°	1456.9	1453.8	1450.0	1459.2	1450.0
15°	1434.6	1429.2	1426.1	1434.6	1423.8
17.5°	1402.3	1400.0	1395.4	1403.8	1393.1
20°	1373.1	1364.6	1361.5	1367.7	1360.0
22.5°	1330.8	1324.6	1323.9	1327.7	1314.6
25°	1286.2	1281.6	1277.7	1280.0	1268.5
27.5°	1239.3	1233.1	1228.5	1227.8	1215.5
30°	1189.3	1181.6	1174.7	1168.6	1154.7
32.5°	1134.7	1125.5	1116.3	1106.3	1091.7
35°	1075.5	1066.3	1054.8	1036.3	1020.2
37.5°	1013.3	1002.5	984.1	962.5	946.4
40°	941.8	936.4	915.6	888.0	870.3
42.5°	874.9	868.7	842.6	811.8	788.0
45°	807.2	798.8	771.1	735.7	715.0
47.5°	738.0	729.6	698.8	655.0	636.6
50°	665.8	661.2	624.3	584.3	565.8
52.5°	599.7	594.3	556.6	516.6	499.7
55°	537.4	528.9	492.0	451.3	441.3
57.5°	475.1	465.9	431.3	396.7	389.8
60°	420.5	409.0	375.9	349.0	342.9
62.5°	369.0	356.0	328.3	307.5	304.4
65°	319.1	309.1	283.7	272.2	277.5
67.5°	276.0	266.0	247.6	242.9	241.4
70°	238.3	229.1	213.7	215.3	216.0
72.5°	203.7	198.3	186.8	190.7	193.7
75°	172.2	169.1	162.2	167.6	171.4
77.5°	143.8	141.5	138.4	143.0	149.1
80°	116.9	115.3	116.1	119.2	125.3
82.5°	89.9	86.9	89.2	95.3	99.2
85°	60.7	58.4	60.0	66.1	66.9
87.5°	28.4	28.4	27.7	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)