

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: P290677

Luminaire Tested: **14GR-LD5-36-F1-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290677
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

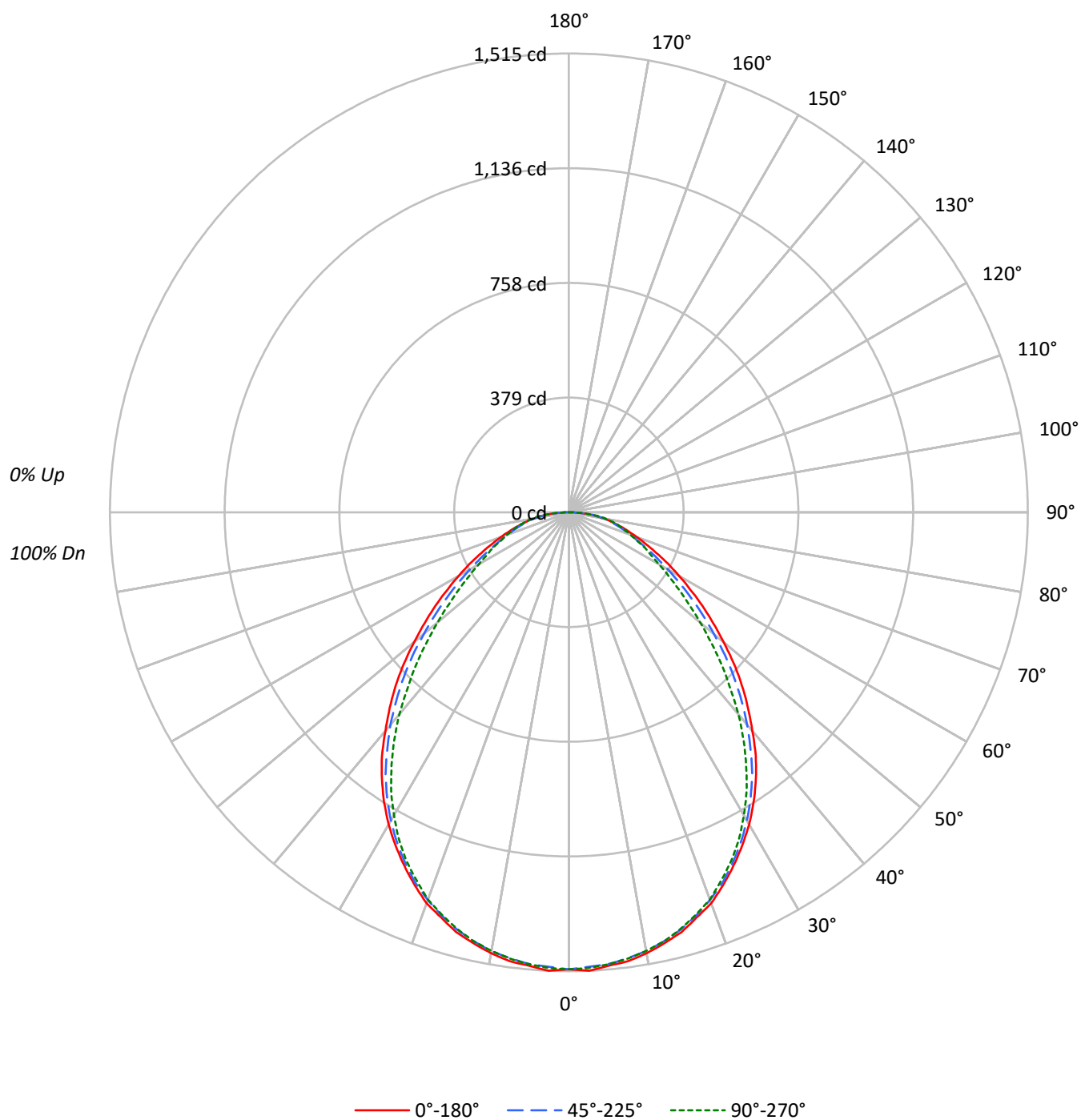
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4060	4060	4060
5°	4059	4045	4047
10°	4039	4020	4018
15°	3998	3974	3968
20°	3933	3900	3896
25°	3820	3795	3768
30°	3697	3651	3589
35°	3534	3466	3352
40°	3309	3217	3058
45°	3073	2935	2722
50°	2788	2614	2370
55°	2522	2309	2071
60°	2264	2024	1846
65°	2032	1807	1768
70°	1876	1682	1700
75°	1791	1687	1783
80°	1812	1799	1943
85°	1877	1853	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.2
10°-20°	402.7	12.0
20°-30°	588.1	17.5
30°-40°	655.3	19.5
40°-50°	590.4	17.6
50°-60°	441.3	13.2
60°-70°	291.1	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°	1133.2	33.8
0°-40°	1788.5	53.3
0°-60°	2820.2	84.1
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1503	1501	1497	1505	1498	143
15°	1435	1430	1426	1435	1424	404
25°	1287	1282	1278	1280	1269	592
35°	1076	1067	1055	1037	1020	671
45°	808	799	771	736	715	621
55°	538	529	492	451	441	481
65°	319	309	284	272	278	320
75°	172	169	162	168	172	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°	1508.8	1508.8	1508.8	1508.8	1508.8
2.5°	1515.0	1508.1	1501.9	1511.1	1505.8
5°	1502.7	1501.1	1497.3	1505.0	1498.1
7.5°	1495.0	1489.6	1485.0	1494.2	1486.5
10°	1478.1	1475.0	1471.1	1478.8	1470.4
12.5°	1457.3	1454.2	1450.4	1459.6	1450.4
15°	1435.0	1429.6	1426.5	1435.0	1424.2
17.5°	1402.7	1400.4	1395.8	1404.2	1393.5
20°	1373.5	1365.0	1361.9	1368.1	1360.4
22.5°	1331.2	1325.0	1324.3	1328.1	1315.0
25°	1286.6	1282.0	1278.1	1280.4	1268.9
27.5°	1239.7	1233.5	1228.9	1228.1	1215.8
30°	1189.7	1182.0	1175.1	1168.9	1155.1
32.5°	1135.1	1125.9	1116.6	1106.6	1092.0
35°	1075.9	1066.6	1055.1	1036.6	1020.5
37.5°	1013.6	1002.8	984.4	962.8	946.7
40°	942.1	936.7	915.9	888.2	870.5
42.5°	875.2	869.0	842.9	812.1	788.3
45°	807.5	799.0	771.3	736.0	715.2
47.5°	738.3	729.8	699.0	655.2	636.8
50°	666.0	661.4	624.4	584.5	566.0
52.5°	599.8	594.5	556.8	516.8	499.9
55°	537.5	529.1	492.2	451.4	441.4
57.5°	475.3	466.0	431.4	396.8	389.9
60°	420.7	409.1	376.1	349.1	343.0
62.5°	369.1	356.1	328.4	307.6	304.5
65°	319.1	309.1	283.8	272.2	277.6
67.5°	276.1	266.1	247.6	243.0	241.5
70°	238.4	229.2	213.8	215.3	216.1
72.5°	203.8	198.4	186.9	190.7	193.8
75°	172.3	169.2	162.3	167.6	171.5
77.5°	143.8	141.5	138.4	143.0	149.2
80°	116.9	115.4	116.1	119.2	125.4
82.5°	90.0	86.9	89.2	95.4	99.2
85°	60.8	58.4	60.0	66.1	66.9
87.5°	28.5	28.5	27.7	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)