

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: P290831

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

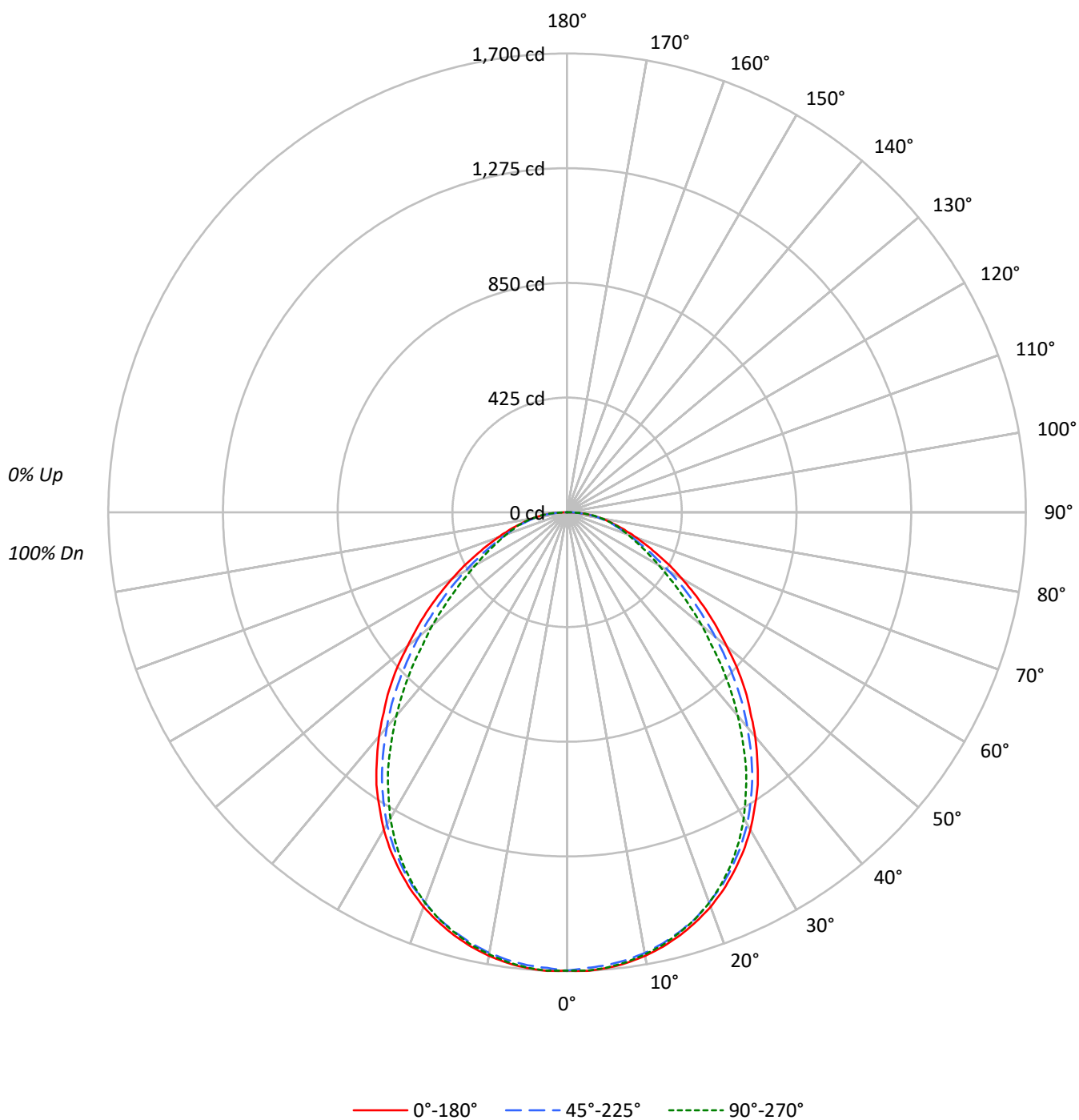
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	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		51	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°	4569	4569	4569
5°	4579	4550	4574
10°	4559	4529	4544
15°	4518	4483	4491
20°	4454	4406	4408
25°	4353	4300	4271
30°	4219	4147	4069
35°	4046	3929	3800
40°	3811	3648	3457
45°	3554	3339	3091
50°	3232	2996	2730
55°	2942	2656	2380
60°	2638	2340	2113
65°	2352	2085	1942
70°	2139	1900	1879
75°	1999	1851	1944
80°	2010	1912	2024
85°	2100	1961	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	4.2
10°-20°	455.1	11.9
20°-30°	667.3	17.5
30°-40°	744.8	19.5
40°-50°	674.3	17.7
50°-60°	509.1	13.4
60°-70°	332.8	8.7
70°-80°	195.5	5.1
80°-90°	71.6	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°	1282.9	33.7
0°-40°	2027.7	53.2
0°-60°	3211.1	84.3
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1695	1692	1684	1694	1693	161
15°	1622	1619	1609	1618	1612	457
25°	1466	1461	1448	1446	1438	674
35°	1232	1221	1196	1169	1157	767
45°	934	920	878	830	812	718
55°	627	613	566	522	507	561
65°	369	358	327	309	305	371
75°	192	187	178	182	187	207
85°	68	65	64	72	72	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.8	1697.8	1697.8	1697.8	1697.8
2.5°	1700.5	1697.8	1689.7	1700.5	1699.6
5°	1695.1	1691.5	1684.4	1694.2	1693.3
7.5°	1684.4	1680.8	1673.6	1682.6	1680.8
10°	1668.3	1664.7	1657.5	1667.4	1662.9
12.5°	1647.7	1644.1	1636.1	1645.0	1641.4
15°	1621.7	1619.1	1609.2	1618.2	1611.9
17.5°	1590.4	1586.0	1578.8	1584.2	1579.7
20°	1555.5	1550.2	1538.6	1543.9	1539.4
22.5°	1513.5	1506.4	1498.3	1498.3	1492.0
25°	1466.1	1460.7	1448.2	1445.5	1438.4
27.5°	1415.1	1410.6	1394.5	1390.1	1377.5
30°	1357.9	1351.6	1334.6	1320.3	1309.6
32.5°	1294.4	1289.9	1266.6	1247.8	1232.6
35°	1231.7	1221.0	1196.0	1169.1	1156.6
37.5°	1158.4	1150.3	1119.0	1085.9	1068.9
40°	1085.0	1075.2	1038.5	1001.8	984.0
42.5°	1005.4	996.5	961.6	917.8	899.0
45°	933.9	919.6	877.5	830.1	812.2
47.5°	855.1	839.9	795.2	745.1	724.6
50°	772.0	762.1	715.6	667.3	652.1
52.5°	697.7	682.5	638.7	591.3	575.2
55°	627.1	612.7	566.2	521.5	507.2
57.5°	556.4	540.3	500.0	459.8	445.5
60°	490.2	474.1	434.7	401.6	392.7
62.5°	430.3	412.4	377.5	351.5	345.3
65°	369.4	357.8	327.4	308.6	305.0
67.5°	318.4	304.1	280.0	271.0	269.2
70°	271.9	262.1	241.5	238.8	238.8
72.5°	229.9	221.8	206.6	208.4	211.1
75°	192.3	187.0	178.0	181.6	187.0
77.5°	160.1	154.7	149.4	154.7	158.3
80°	129.7	124.3	123.4	127.9	130.6
82.5°	97.5	93.0	93.9	101.1	103.8
85°	68.0	65.3	63.5	71.6	72.5
87.5°	34.9	33.1	32.2	38.5	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)