

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: P290826

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290826
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

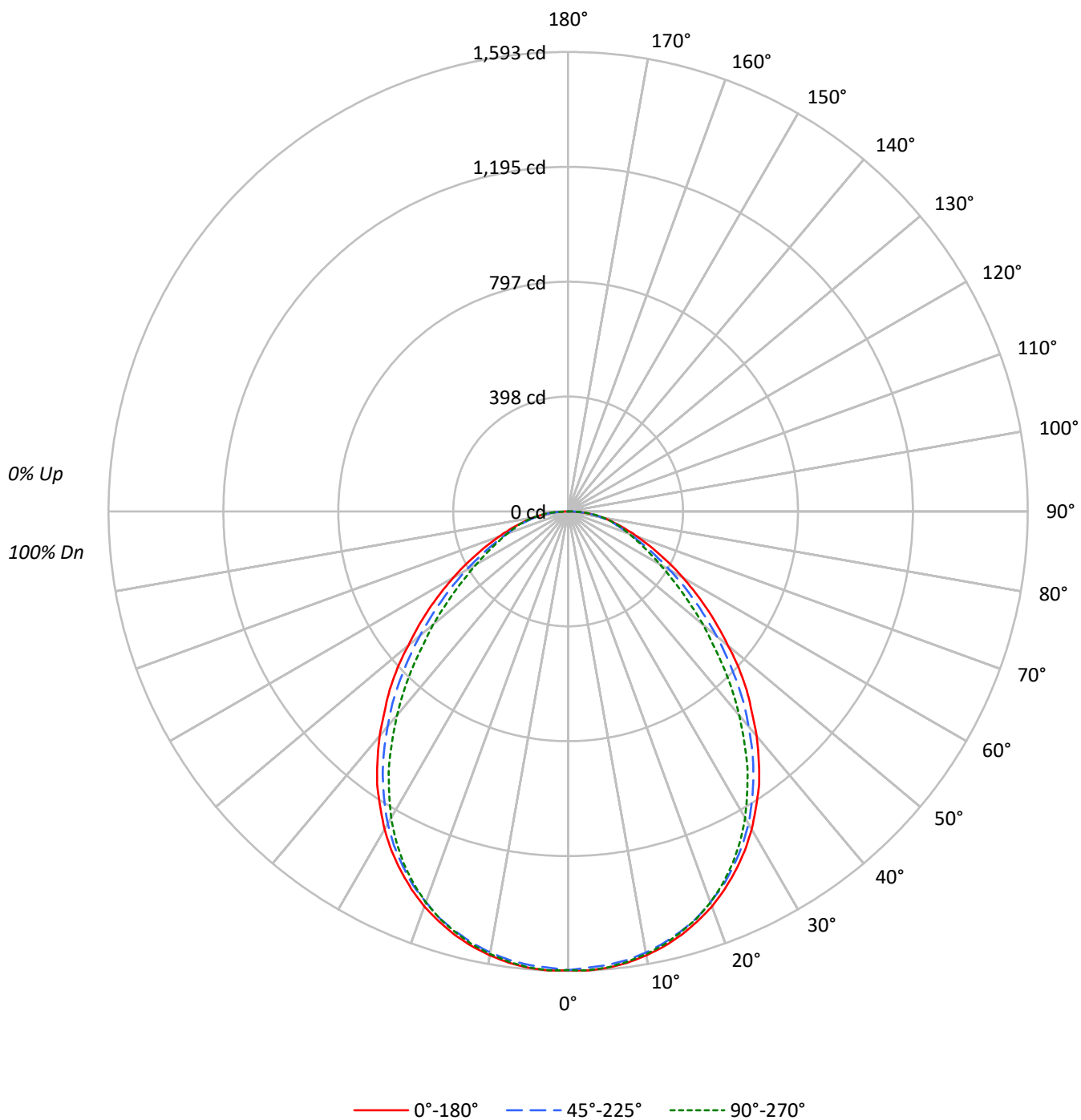
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	58			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	60	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			51	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4280	4280	4280
5°	4289	4262	4285
10°	4270	4243	4256
15°	4232	4200	4207
20°	4173	4127	4130
25°	4078	4028	4001
30°	3952	3885	3812
35°	3790	3680	3559
40°	3570	3417	3238
45°	3329	3128	2896
50°	3027	2807	2557
55°	2756	2488	2229
60°	2471	2192	1980
65°	2204	1953	1819
70°	2004	1780	1760
75°	1874	1734	1821
80°	1883	1791	1895
85°	1967	1837	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	4.2
10°-20°	426.3	11.9
20°-30°	625.1	17.5
30°-40°	697.7	19.5
40°-50°	631.6	17.7
50°-60°	476.9	13.4
60°-70°	311.8	8.7
70°-80°	183.1	5.1
80°-90°	67.0	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°	1201.8	33.7
0°-40°	1899.5	53.2
0°-60°	3008.1	84.3
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1588	1584	1578	1587	1586	151
15°	1519	1517	1508	1516	1510	428
25°	1373	1368	1357	1354	1347	632
35°	1154	1144	1120	1095	1084	719
45°	875	861	822	778	761	672
55°	587	574	530	488	475	526
65°	346	335	307	289	286	347
75°	180	175	167	170	175	194
85°	64	61	60	67	68	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.4	1590.4	1590.4	1590.4	1590.4
2.5°	1592.9	1590.4	1582.9	1592.9	1592.1
5°	1587.9	1584.5	1577.8	1587.1	1586.2
7.5°	1577.8	1574.5	1567.8	1576.2	1574.5
10°	1562.8	1559.4	1552.7	1561.9	1557.7
12.5°	1543.5	1540.1	1532.6	1541.0	1537.6
15°	1519.2	1516.7	1507.5	1515.8	1510.0
17.5°	1489.9	1485.7	1479.0	1484.0	1479.8
20°	1457.2	1452.2	1441.3	1446.3	1442.1
22.5°	1417.8	1411.1	1403.6	1403.6	1397.7
25°	1373.4	1368.4	1356.6	1354.1	1347.4
27.5°	1325.6	1321.4	1306.4	1302.2	1290.4
30°	1272.0	1266.1	1250.2	1236.8	1226.7
32.5°	1212.5	1208.3	1186.5	1168.9	1154.7
35°	1153.8	1143.8	1120.3	1095.2	1083.5
37.5°	1085.1	1077.6	1048.3	1017.3	1001.3
40°	1016.4	1007.2	972.8	938.5	921.7
42.5°	941.8	933.5	900.8	859.7	842.1
45°	874.8	861.4	822.0	777.6	760.9
47.5°	801.1	786.8	744.9	698.0	678.7
50°	723.1	713.9	670.4	625.1	610.9
52.5°	653.6	639.3	598.3	553.9	538.8
55°	587.4	574.0	530.4	488.5	475.1
57.5°	521.2	506.1	468.4	430.7	417.3
60°	459.2	444.1	407.2	376.2	367.9
62.5°	403.0	386.3	353.6	329.3	323.4
65°	346.1	335.2	306.7	289.1	285.7
67.5°	298.3	284.9	262.3	253.9	252.2
70°	254.7	245.5	226.2	223.7	223.7
72.5°	215.4	207.8	193.6	195.2	197.8
75°	180.2	175.1	166.8	170.1	175.1
77.5°	150.0	145.0	139.9	145.0	148.3
80°	121.5	116.5	115.6	119.8	122.3
82.5°	91.3	87.1	88.0	94.7	97.2
85°	63.7	61.2	59.5	67.0	67.9
87.5°	32.7	31.0	30.2	36.0	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)