

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: P290783

Luminaire Tested: **14GR-LD5-43-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290783
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-LD5-43-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

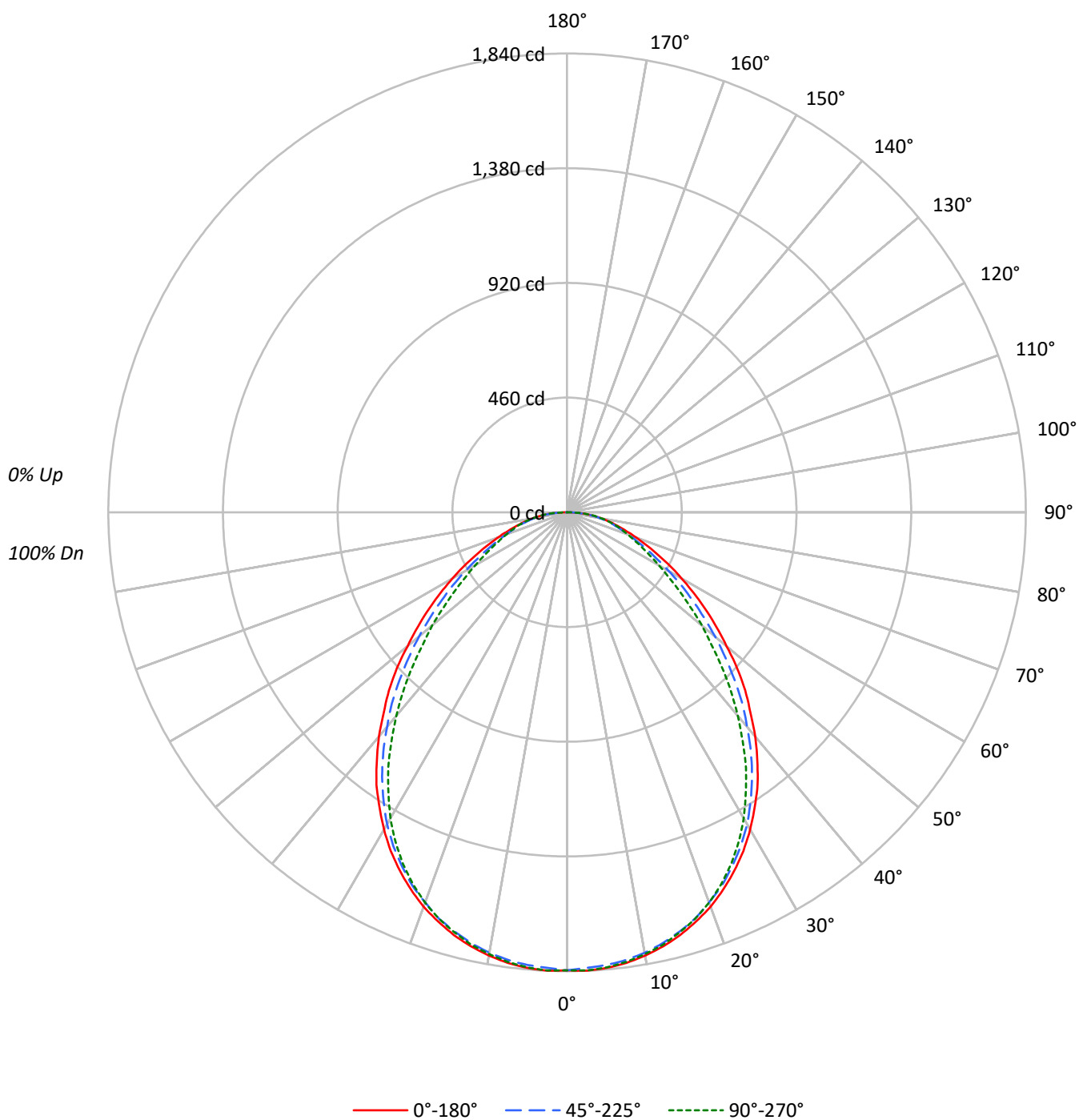
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4943	4943	4943
5°	4954	4923	4948
10°	4932	4900	4916
15°	4888	4850	4858
20°	4819	4767	4769
25°	4709	4652	4620
30°	4565	4487	4402
35°	4378	4251	4111
40°	4124	3947	3739
45°	3845	3613	3344
50°	3496	3241	2954
55°	3183	2874	2574
60°	2854	2531	2286
65°	2545	2255	2101
70°	2315	2056	2033
75°	2164	2002	2103
80°	2174	2069	2190
85°	2269	2121	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	4.2
10°-20°	492.4	11.9
20°-30°	721.9	17.5
30°-40°	805.7	19.5
40°-50°	729.5	17.7
50°-60°	550.8	13.4
60°-70°	360.1	8.7
70°-80°	211.5	5.1
80°-90°	77.4	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°	1388.0	33.7
0°-40°	2193.7	53.2
0°-60°	3474.0	84.3
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1834	1830	1822	1833	1832	174
15°	1754	1752	1741	1751	1744	494
25°	1586	1580	1567	1564	1556	730
35°	1333	1321	1294	1265	1251	830
45°	1010	995	949	898	879	776
55°	678	663	613	564	549	607
65°	400	387	354	334	330	401
75°	208	202	193	196	202	223
85°	74	71	69	77	78	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1839.7	1836.8	1828.1	1839.7	1838.7
5°	1833.9	1830.0	1822.3	1832.9	1831.9
7.5°	1822.3	1818.4	1810.6	1820.3	1818.4
10°	1804.8	1801.0	1793.2	1803.9	1799.0
12.5°	1782.6	1778.7	1770.0	1779.7	1775.8
15°	1754.5	1751.6	1741.0	1750.6	1743.9
17.5°	1720.6	1715.8	1708.1	1713.9	1709.0
20°	1682.9	1677.1	1664.5	1670.3	1665.5
22.5°	1637.4	1629.7	1621.0	1621.0	1614.2
25°	1586.1	1580.3	1566.8	1563.9	1556.1
27.5°	1531.0	1526.1	1508.7	1503.9	1490.3
30°	1469.0	1462.3	1443.9	1428.4	1416.8
32.5°	1400.3	1395.5	1370.3	1350.0	1333.5
35°	1332.6	1321.0	1293.9	1264.8	1251.3
37.5°	1253.2	1244.5	1210.6	1174.8	1156.4
40°	1173.9	1163.2	1123.5	1083.9	1064.5
42.5°	1087.7	1078.1	1040.3	992.9	972.6
45°	1010.3	994.8	949.4	898.1	878.7
47.5°	925.2	908.7	860.3	806.1	783.9
50°	835.2	824.5	774.2	721.9	705.5
52.5°	754.8	738.4	691.0	639.7	622.3
55°	678.4	662.9	612.6	564.2	548.7
57.5°	601.9	584.5	541.0	497.4	481.9
60°	530.3	512.9	470.3	434.5	424.8
62.5°	465.5	446.1	408.4	380.3	373.5
65°	399.7	387.1	354.2	333.9	330.0
67.5°	344.5	329.0	302.9	293.2	291.3
70°	294.2	283.5	261.3	258.4	258.4
72.5°	248.7	240.0	223.5	225.5	228.4
75°	208.1	202.3	192.6	196.5	202.3
77.5°	173.2	167.4	161.6	167.4	171.3
80°	140.3	134.5	133.5	138.4	141.3
82.5°	105.5	100.6	101.6	109.4	112.3
85°	73.5	70.6	68.7	77.4	78.4
87.5°	37.7	35.8	34.8	41.6	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)