

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: P290944

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290944
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

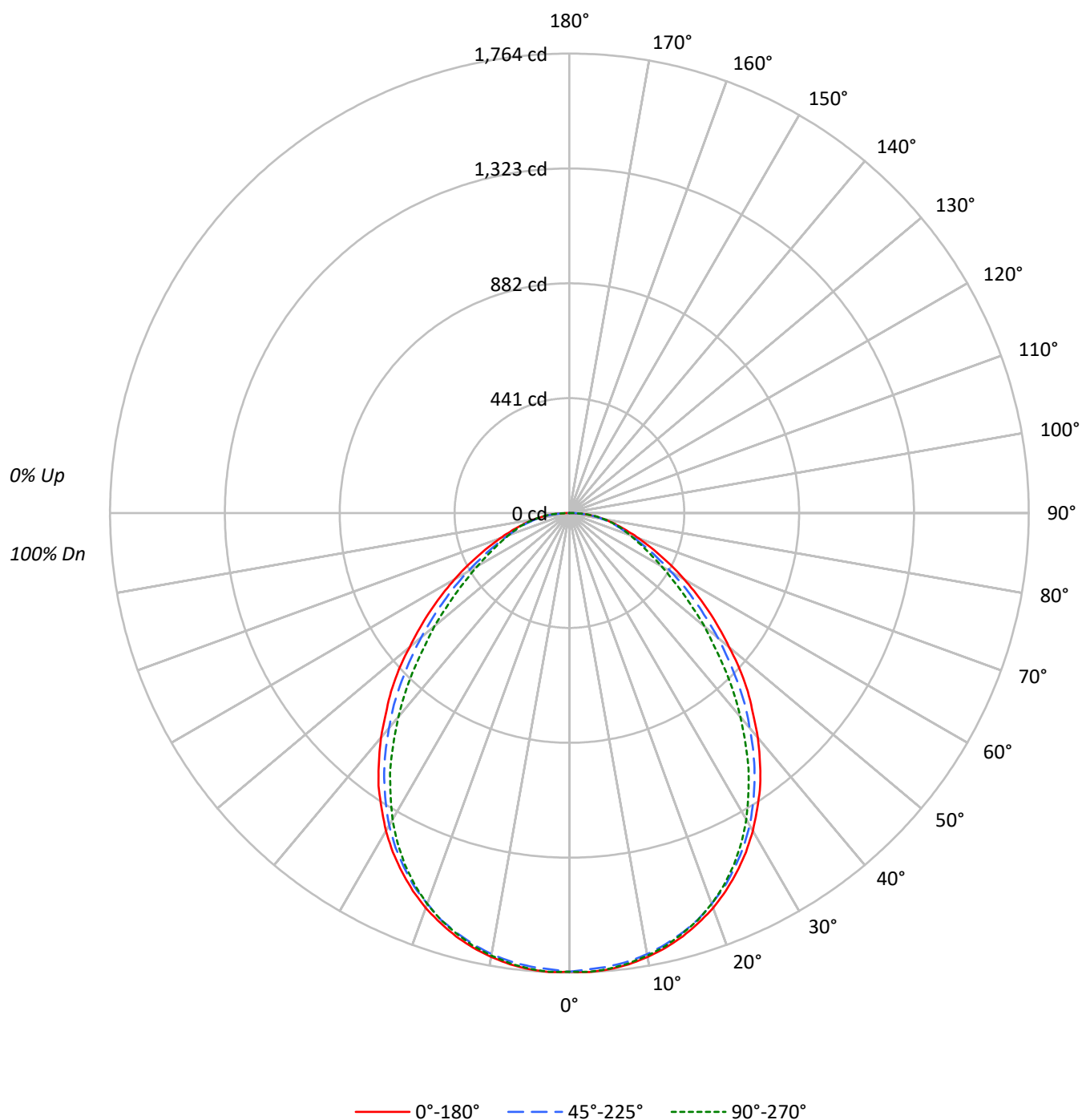
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	4739	4739	4739
5°	4750	4719	4744
10°	4728	4698	4713
15°	4686	4650	4658
20°	4621	4570	4573
25°	4515	4460	4430
30°	4377	4301	4221
35°	4197	4075	3941
40°	3954	3784	3585
45°	3687	3464	3206
50°	3352	3108	2832
55°	3051	2755	2468
60°	2737	2427	2192
65°	2440	2162	2015
70°	2220	1971	1949
75°	2074	1919	2016
80°	2084	1984	2100
85°	2177	2035	2322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	4.2
10°-20°	472.1	11.9
20°-30°	692.2	17.5
30°-40°	772.5	19.5
40°-50°	699.4	17.7
50°-60°	528.1	13.4
60°-70°	345.2	8.7
70°-80°	202.8	5.1
80°-90°	74.2	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°	1330.8	33.7
0°-40°	2103.3	53.2
0°-60°	3330.8	84.3
0°-90°	3953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1758	1754	1747	1757	1756	167
15°	1682	1679	1669	1678	1672	474
25°	1521	1515	1502	1499	1492	700
35°	1278	1266	1240	1213	1200	796
45°	969	954	910	861	842	744
55°	650	636	587	541	526	582
65°	383	371	340	320	316	384
75°	200	194	185	188	194	214
85°	70	68	66	74	75	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.0	1761.0	1761.0	1761.0	1761.0
2.5°	1763.8	1761.0	1752.7	1763.8	1762.9
5°	1758.3	1754.5	1747.1	1757.3	1756.4
7.5°	1747.1	1743.4	1736.0	1745.3	1743.4
10°	1730.4	1726.7	1719.3	1729.5	1724.9
12.5°	1709.1	1705.4	1697.0	1706.3	1702.6
15°	1682.2	1679.4	1669.2	1678.5	1672.0
17.5°	1649.7	1645.1	1637.6	1643.2	1638.6
20°	1613.5	1607.9	1595.9	1601.4	1596.8
22.5°	1569.9	1562.5	1554.1	1554.1	1547.6
25°	1520.7	1515.2	1502.2	1499.4	1492.0
27.5°	1467.8	1463.2	1446.5	1441.9	1428.9
30°	1408.5	1402.0	1384.3	1369.5	1358.4
32.5°	1342.6	1337.9	1313.8	1294.3	1278.6
35°	1277.6	1266.5	1240.5	1212.7	1199.7
37.5°	1201.6	1193.2	1160.7	1126.4	1108.8
40°	1125.5	1115.3	1077.2	1039.2	1020.6
42.5°	1042.9	1033.6	997.4	952.0	932.5
45°	968.7	953.8	910.2	861.0	842.5
47.5°	887.0	871.2	824.8	772.9	751.5
50°	800.7	790.5	742.3	692.2	676.4
52.5°	723.7	707.9	662.5	613.3	596.6
55°	650.4	635.6	587.3	540.9	526.1
57.5°	577.1	560.4	518.7	476.9	462.1
60°	508.5	491.8	450.9	416.6	407.3
62.5°	446.3	427.7	391.5	364.6	358.1
65°	383.2	371.1	339.6	320.1	316.4
67.5°	330.3	315.5	290.4	281.1	279.3
70°	282.1	271.9	250.5	247.7	247.7
72.5°	238.5	230.1	214.3	216.2	219.0
75°	199.5	193.9	184.6	188.4	193.9
77.5°	166.1	160.5	154.9	160.5	164.2
80°	134.5	129.0	128.0	132.7	135.5
82.5°	101.1	96.5	97.4	104.8	107.6
85°	70.5	67.7	65.9	74.2	75.2
87.5°	36.2	34.3	33.4	39.9	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)