

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: P290844

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290844
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-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: 4261.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

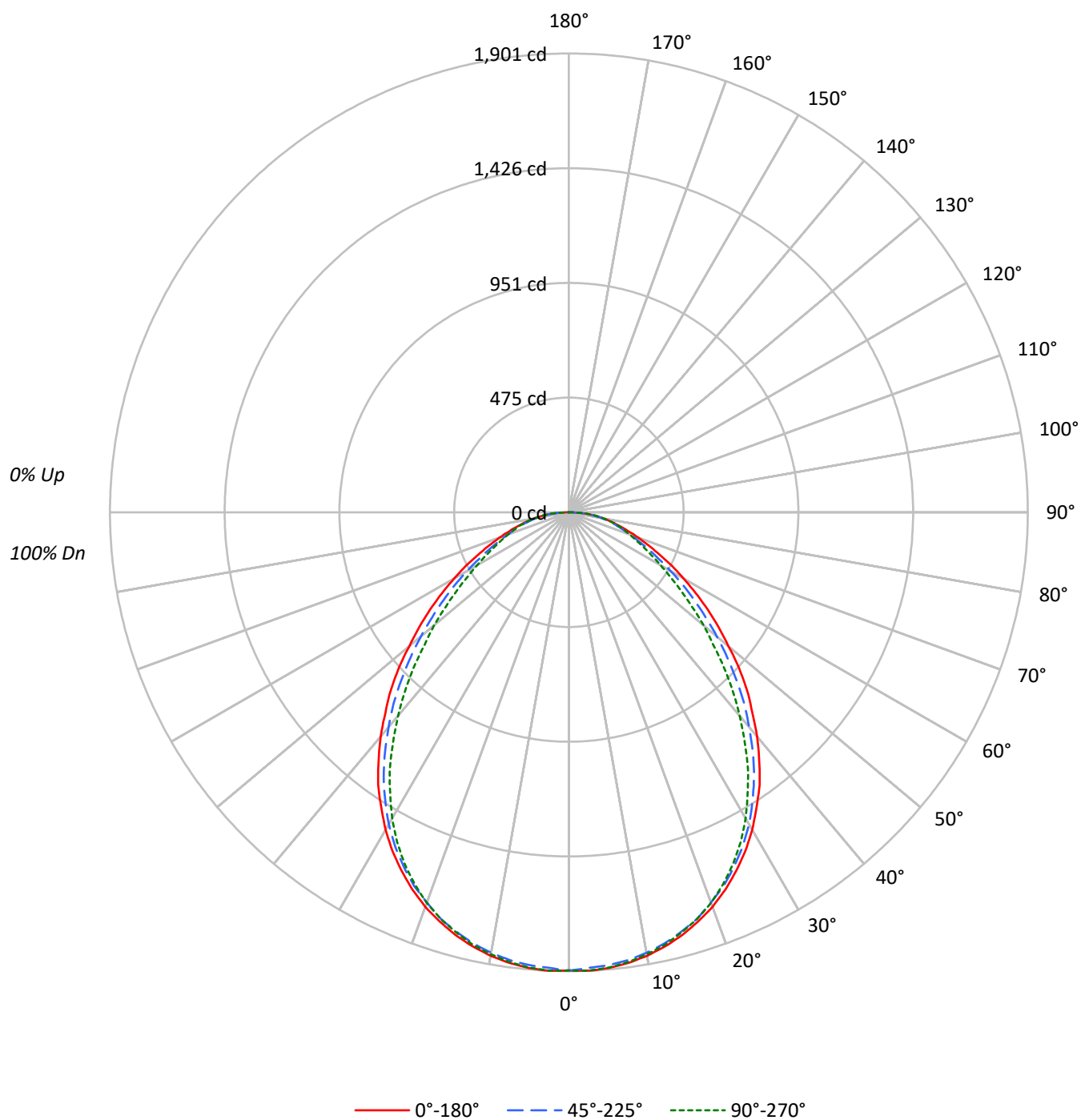
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5108	5108	5108
5°	5119	5087	5114
10°	5097	5064	5080
15°	5051	5012	5021
20°	4981	4926	4929
25°	4867	4808	4775
30°	4717	4637	4550
35°	4524	4393	4248
40°	4262	4079	3864
45°	3973	3734	3456
50°	3613	3350	3052
55°	3289	2970	2661
60°	2950	2616	2363
65°	2630	2330	2171
70°	2392	2124	2101
75°	2235	2069	2173
80°	2247	2139	2263
85°	2347	2192	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	4.2
10°-20°	508.8	11.9
20°-30°	746.1	17.5
30°-40°	832.7	19.5
40°-50°	753.9	17.7
50°-60°	569.3	13.4
60°-70°	372.1	8.7
70°-80°	218.5	5.1
80°-90°	80.0	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°	1434.4	33.7
0°-40°	2267.1	53.2
0°-60°	3590.3	84.3
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1895	1891	1883	1894	1893	180
15°	1813	1810	1799	1809	1802	511
25°	1639	1633	1619	1616	1608	754
35°	1377	1365	1337	1307	1293	858
45°	1044	1028	981	928	908	802
55°	701	685	633	583	567	627
65°	413	400	366	345	341	414
75°	215	209	199	203	209	231
85°	76	73	71	80	81	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1901.2	1898.2	1889.2	1901.2	1900.2
5°	1895.2	1891.2	1883.2	1894.2	1893.2
7.5°	1883.2	1879.2	1871.2	1881.2	1879.2
10°	1865.2	1861.2	1853.2	1864.2	1859.2
12.5°	1842.2	1838.2	1829.2	1839.2	1835.2
15°	1813.2	1810.2	1799.2	1809.2	1802.2
17.5°	1778.2	1773.2	1765.2	1771.2	1766.2
20°	1739.2	1733.2	1720.2	1726.2	1721.2
22.5°	1692.2	1684.2	1675.2	1675.2	1668.2
25°	1639.2	1633.2	1619.2	1616.2	1608.2
27.5°	1582.2	1577.2	1559.2	1554.2	1540.2
30°	1518.2	1511.2	1492.2	1476.2	1464.2
32.5°	1447.2	1442.2	1416.2	1395.2	1378.2
35°	1377.2	1365.2	1337.2	1307.2	1293.2
37.5°	1295.2	1286.2	1251.2	1214.2	1195.2
40°	1213.2	1202.2	1161.2	1120.1	1100.1
42.5°	1124.1	1114.1	1075.1	1026.1	1005.1
45°	1044.1	1028.1	981.1	928.1	908.1
47.5°	956.1	939.1	889.1	833.1	810.1
50°	863.1	852.1	800.1	746.1	729.1
52.5°	780.1	763.1	714.1	661.1	643.1
55°	701.1	685.1	633.1	583.1	567.1
57.5°	622.1	604.1	559.1	514.1	498.1
60°	548.1	530.1	486.1	449.1	439.1
62.5°	481.1	461.1	422.1	393.1	386.1
65°	413.1	400.1	366.0	345.0	341.0
67.5°	356.0	340.0	313.0	303.0	301.0
70°	304.0	293.0	270.0	267.0	267.0
72.5°	257.0	248.0	231.0	233.0	236.0
75°	215.0	209.0	199.0	203.0	209.0
77.5°	179.0	173.0	167.0	173.0	177.0
80°	145.0	139.0	138.0	143.0	146.0
82.5°	109.0	104.0	105.0	113.0	116.0
85°	76.0	73.0	71.0	80.0	81.0
87.5°	39.0	37.0	36.0	43.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)