

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: P290885

Luminaire Tested: **14GR-LD5-43-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290885
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-L93050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4075.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

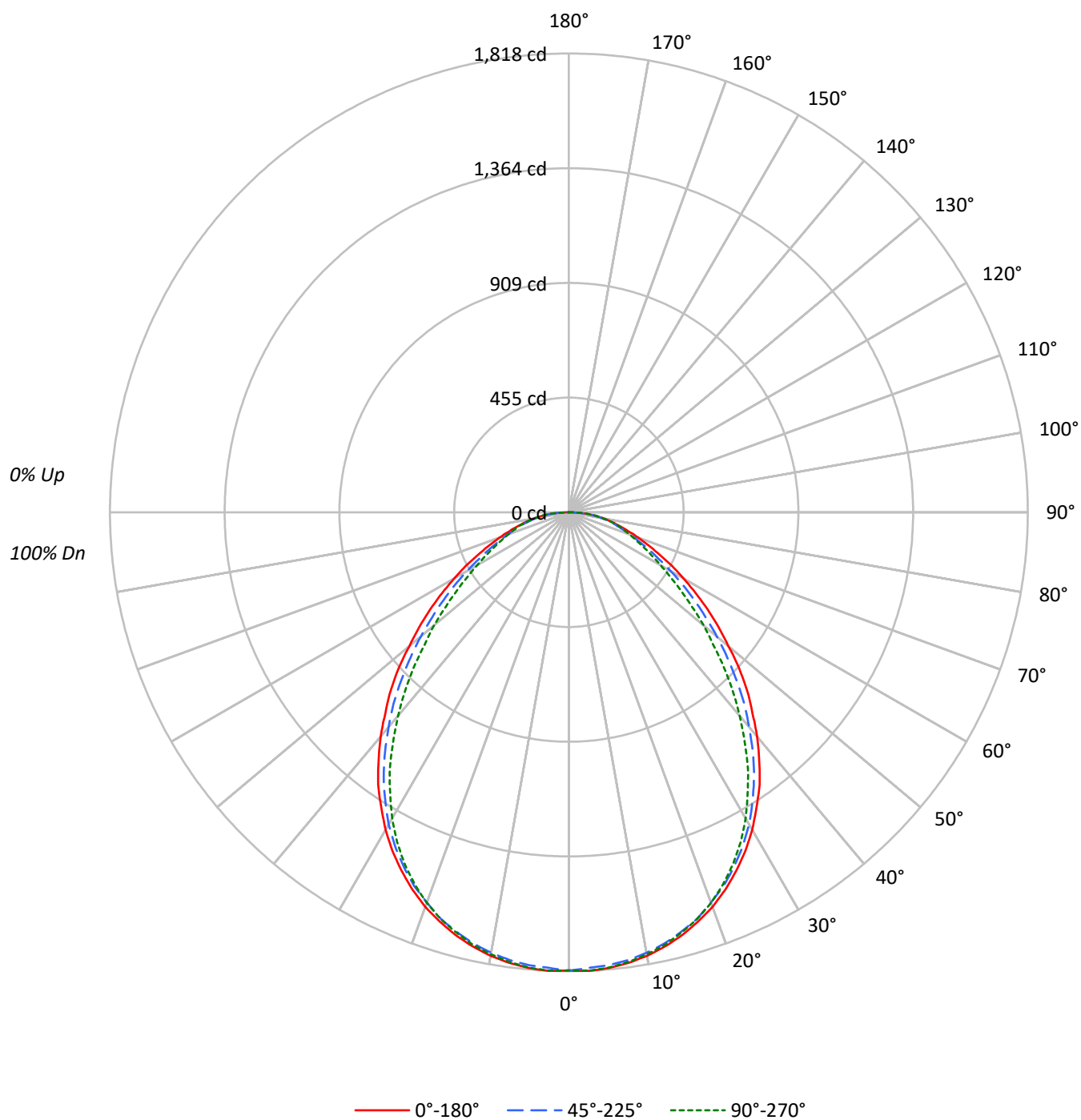
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4885	4885	4885
5°	4896	4865	4891
10°	4874	4843	4859
15°	4831	4794	4802
20°	4763	4711	4714
25°	4655	4598	4567
30°	4511	4434	4351
35°	4327	4201	4063
40°	4076	3901	3696
45°	3800	3571	3305
50°	3455	3203	2919
55°	3146	2840	2544
60°	2821	2502	2260
65°	2515	2229	2077
70°	2288	2031	2009
75°	2138	1979	2078
80°	2149	2046	2163
85°	2245	2096	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	4.2
10°-20°	486.6	11.9
20°-30°	713.5	17.5
30°-40°	796.4	19.5
40°-50°	721.0	17.7
50°-60°	544.4	13.4
60°-70°	355.9	8.7
70°-80°	209.0	5.1
80°-90°	76.5	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°	1371.8	33.7
0°-40°	2168.2	53.2
0°-60°	3433.6	84.3
0°-90°	4075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1812	1809	1801	1812	1811	172
15°	1734	1731	1721	1730	1724	489
25°	1568	1562	1548	1546	1538	721
35°	1317	1306	1279	1250	1237	820
45°	999	983	938	888	868	767
55°	670	655	605	558	542	600
65°	395	383	350	330	326	396
75°	206	200	190	194	200	221
85°	73	70	68	76	78	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.4	1815.4	1815.4	1815.4	1815.4
2.5°	1818.3	1815.4	1806.8	1818.3	1817.3
5°	1812.5	1808.7	1801.0	1811.6	1810.6
7.5°	1801.0	1797.2	1789.6	1799.1	1797.2
10°	1783.8	1780.0	1772.3	1782.9	1778.1
12.5°	1761.8	1758.0	1749.4	1759.0	1755.1
15°	1734.1	1731.2	1720.7	1730.3	1723.6
17.5°	1700.6	1695.8	1688.2	1693.9	1689.1
20°	1663.3	1657.6	1645.1	1650.9	1646.1
22.5°	1618.4	1610.7	1602.1	1602.1	1595.4
25°	1567.7	1561.9	1548.5	1545.7	1538.0
27.5°	1513.1	1508.4	1491.1	1486.4	1473.0
30°	1451.9	1445.2	1427.1	1411.8	1400.3
32.5°	1384.0	1379.2	1354.4	1334.3	1318.0
35°	1317.1	1305.6	1278.8	1250.1	1236.7
37.5°	1238.6	1230.0	1196.5	1161.2	1143.0
40°	1160.2	1149.7	1110.5	1071.3	1052.1
42.5°	1075.1	1065.5	1028.2	981.3	961.3
45°	998.6	983.3	938.3	887.6	868.5
47.5°	914.4	898.1	850.3	796.7	774.7
50°	825.4	814.9	765.2	713.5	697.3
52.5°	746.0	729.8	682.9	632.2	615.0
55°	670.5	655.2	605.4	557.6	542.3
57.5°	594.9	577.7	534.7	491.6	476.3
60°	524.1	506.9	464.8	429.5	419.9
62.5°	460.1	440.9	403.6	375.9	369.2
65°	395.0	382.6	350.1	330.0	326.2
67.5°	340.5	325.2	299.4	289.8	287.9
70°	290.8	280.2	258.2	255.4	255.4
72.5°	245.8	237.2	220.9	222.9	225.7
75°	205.6	199.9	190.3	194.2	199.9
77.5°	171.2	165.5	159.7	165.5	169.3
80°	138.7	132.9	132.0	136.8	139.6
82.5°	104.3	99.5	100.4	108.1	111.0
85°	72.7	69.8	67.9	76.5	77.5
87.5°	37.3	35.4	34.4	41.1	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)