

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: P290849

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290849
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

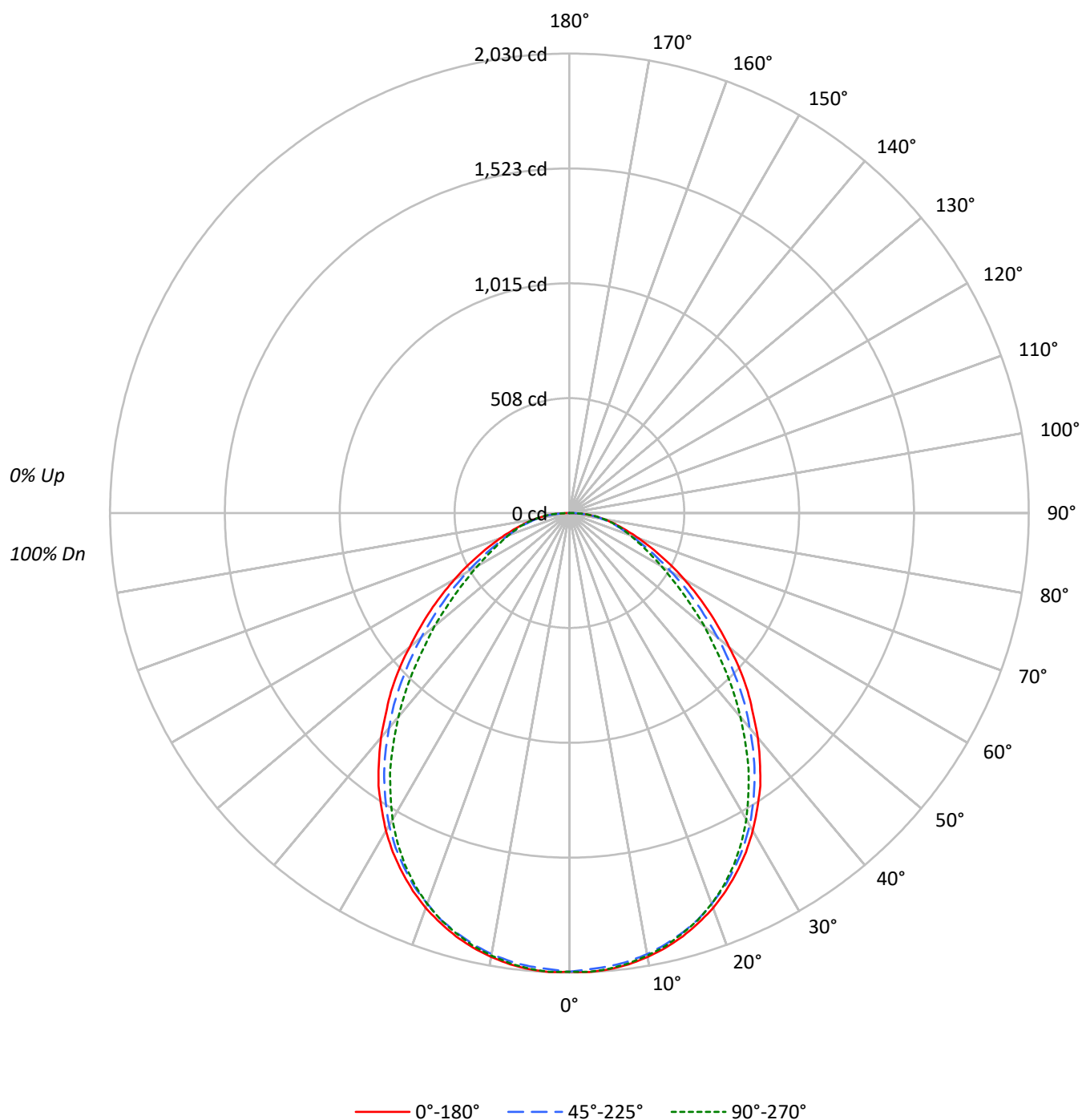
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5454	5454	5454
5°	5465	5431	5460
10°	5441	5406	5424
15°	5393	5351	5360
20°	5317	5259	5262
25°	5196	5133	5098
30°	5036	4950	4857
35°	4830	4690	4535
40°	4550	4354	4126
45°	4242	3986	3690
50°	3858	3576	3259
55°	3512	3171	2840
60°	3149	2793	2523
65°	2808	2488	2318
70°	2554	2268	2243
75°	2387	2209	2321
80°	2399	2283	2416
85°	2504	2340	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	4.2
10°-20°	543.2	11.9
20°-30°	796.5	17.5
30°-40°	889.0	19.5
40°-50°	804.9	17.7
50°-60°	607.7	13.4
60°-70°	397.3	8.7
70°-80°	233.3	5.1
80°-90°	85.4	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°	1531.4	33.7
0°-40°	2420.4	53.2
0°-60°	3833.0	84.3
0°-90°	4549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2023	2019	2010	2022	2021	192
15°	1936	1933	1921	1932	1924	545
25°	1750	1744	1729	1726	1717	805
35°	1470	1458	1428	1396	1381	916
45°	1115	1098	1047	991	970	856
55°	748	731	676	622	605	670
65°	441	427	391	368	364	442
75°	230	223	212	217	223	247
85°	81	78	76	85	86	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2026.6	2026.6	2026.6	2026.6	2026.6
2.5°	2029.8	2026.6	2016.9	2029.8	2028.7
5°	2023.3	2019.1	2010.5	2022.3	2021.2
7.5°	2010.5	2006.3	1997.7	2008.4	2006.3
10°	1991.3	1987.0	1978.5	1990.2	1984.9
12.5°	1966.8	1962.5	1952.9	1963.6	1959.3
15°	1935.8	1932.6	1920.8	1931.5	1924.0
17.5°	1898.4	1893.1	1884.5	1890.9	1885.6
20°	1856.8	1850.4	1836.5	1842.9	1837.6
22.5°	1806.6	1798.1	1788.4	1788.4	1781.0
25°	1750.0	1743.6	1728.7	1725.5	1716.9
27.5°	1689.1	1683.8	1664.6	1659.3	1644.3
30°	1620.8	1613.3	1593.1	1576.0	1563.2
32.5°	1545.0	1539.7	1511.9	1489.5	1471.3
35°	1470.3	1457.5	1427.6	1395.5	1380.6
37.5°	1382.7	1373.1	1335.7	1296.2	1275.9
40°	1295.2	1283.4	1239.6	1195.9	1174.5
42.5°	1200.1	1189.5	1147.8	1095.5	1073.1
45°	1114.7	1097.6	1047.4	990.9	969.5
47.5°	1020.7	1002.6	949.2	889.4	864.9
50°	921.5	909.7	854.2	796.5	778.4
52.5°	832.8	814.7	762.4	705.8	686.6
55°	748.5	731.4	675.9	622.5	605.4
57.5°	664.1	644.9	596.9	548.8	531.7
60°	585.1	565.9	518.9	479.4	468.7
62.5°	513.6	492.2	450.6	419.6	412.1
65°	441.0	427.1	390.8	368.4	364.1
67.5°	380.1	363.0	334.2	323.5	321.4
70°	324.6	312.8	288.3	285.1	285.1
72.5°	274.4	264.8	246.6	248.8	252.0
75°	229.6	223.2	212.5	216.7	223.2
77.5°	191.1	184.7	178.3	184.7	189.0
80°	154.8	148.4	147.3	152.7	155.9
82.5°	116.4	111.0	112.1	120.7	123.9
85°	81.1	77.9	75.8	85.4	86.5
87.5°	41.6	39.5	38.4	45.9	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)