

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: P290848

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290848
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4537.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

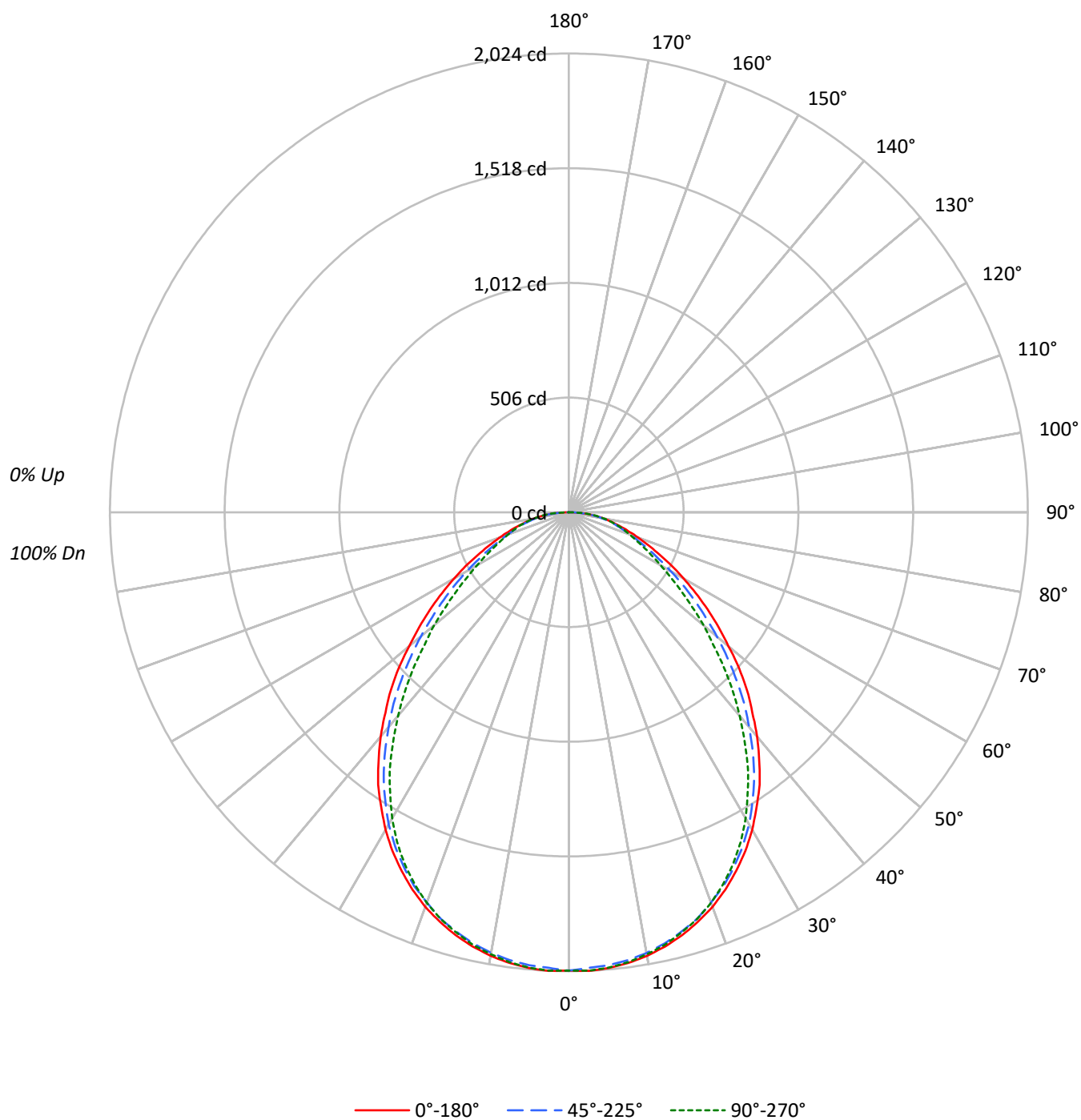
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5439	5439	5439
5°	5451	5417	5445
10°	5427	5392	5410
15°	5379	5337	5346
20°	5303	5245	5248
25°	5182	5119	5084
30°	5023	4937	4844
35°	4817	4677	4523
40°	4538	4343	4115
45°	4231	3976	3680
50°	3847	3566	3250
55°	3502	3163	2833
60°	3141	2785	2516
65°	2800	2482	2312
70°	2547	2262	2237
75°	2381	2203	2314
80°	2393	2278	2410
85°	2498	2334	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	4.2
10°-20°	541.8	11.9
20°-30°	794.4	17.5
30°-40°	886.7	19.5
40°-50°	802.7	17.7
50°-60°	606.1	13.4
60°-70°	396.2	8.7
70°-80°	232.7	5.1
80°-90°	85.2	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°	1527.4	33.7
0°-40°	2414.0	53.2
0°-60°	3822.9	84.3
0°-90°	4537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	2018	2014	2005	2017	2016	192
15°	1931	1928	1916	1926	1919	544
25°	1745	1739	1724	1721	1712	803
35°	1466	1454	1424	1392	1377	913
45°	1112	1095	1045	988	967	854
55°	746	730	674	621	604	668
65°	440	426	390	367	363	441
75°	229	223	212	216	223	246
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°	2021.2	2021.2	2021.2	2021.2	2021.2
2.5°	2024.4	2021.2	2011.6	2024.4	2023.3
5°	2018.0	2013.8	2005.2	2016.9	2015.9
7.5°	2005.2	2001.0	1992.5	2003.1	2001.0
10°	1986.1	1981.8	1973.3	1985.0	1979.7
12.5°	1961.6	1957.3	1947.7	1958.4	1954.1
15°	1930.7	1927.5	1915.8	1926.4	1919.0
17.5°	1893.4	1888.1	1879.6	1886.0	1880.6
20°	1851.9	1845.5	1831.7	1838.0	1832.7
22.5°	1801.8	1793.3	1783.7	1783.7	1776.3
25°	1745.4	1739.0	1724.1	1720.9	1712.4
27.5°	1684.7	1679.4	1660.2	1654.9	1640.0
30°	1616.5	1609.1	1588.9	1571.8	1559.0
32.5°	1540.9	1535.6	1507.9	1485.6	1467.5
35°	1466.4	1453.6	1423.8	1391.8	1376.9
37.5°	1379.1	1369.5	1332.2	1292.8	1272.6
40°	1291.7	1280.0	1236.4	1192.7	1171.4
42.5°	1197.0	1186.3	1144.8	1092.6	1070.2
45°	1111.8	1094.7	1044.7	988.2	966.9
47.5°	1018.1	1000.0	946.7	887.1	862.6
50°	919.0	907.3	851.9	794.4	776.3
52.5°	830.6	812.5	760.3	703.9	684.7
55°	746.5	729.5	674.1	620.8	603.8
57.5°	662.4	643.2	595.3	547.4	530.3
60°	583.6	564.4	517.5	478.1	467.5
62.5°	512.2	490.9	449.4	418.5	411.1
65°	439.8	426.0	389.8	367.4	363.1
67.5°	379.1	362.1	333.3	322.7	320.5
70°	323.7	312.0	287.5	284.3	284.3
72.5°	273.7	264.1	246.0	248.1	251.3
75°	229.0	222.6	211.9	216.2	222.6
77.5°	190.6	184.2	177.8	184.2	188.5
80°	154.4	148.0	147.0	152.3	155.5
82.5°	116.1	110.8	111.8	120.3	123.5
85°	80.9	77.7	75.6	85.2	86.3
87.5°	41.5	39.4	38.3	45.8	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)