

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: P290652

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 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): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

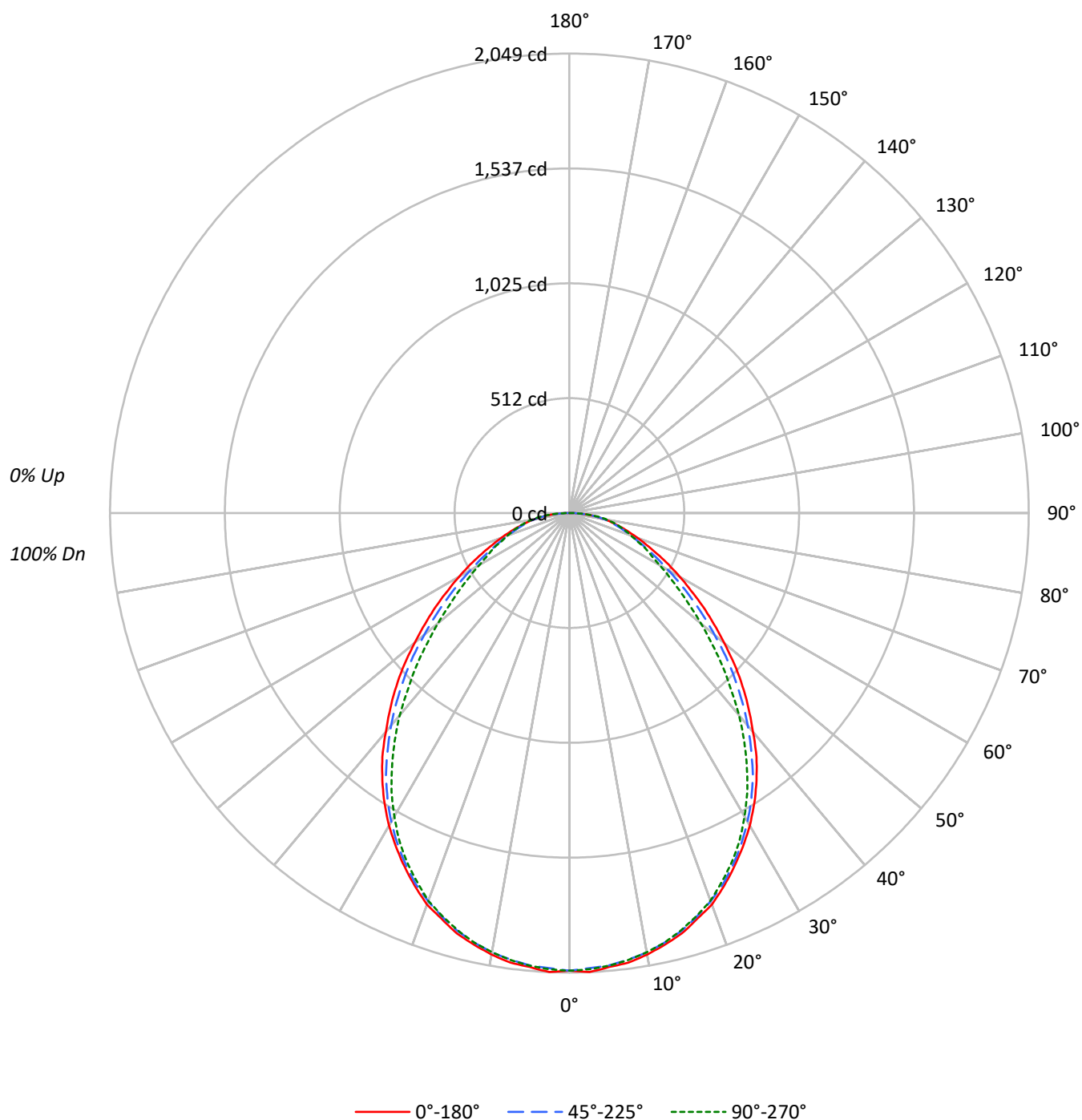
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	87
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	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	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	52	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°	5491	5491	5491
5°	5489	5470	5472
10°	5462	5436	5433
15°	5406	5374	5366
20°	5319	5274	5268
25°	5166	5132	5095
30°	4999	4938	4854
35°	4779	4687	4533
40°	4475	4351	4135
45°	4156	3970	3681
50°	3770	3535	3204
55°	3410	3123	2800
60°	3062	2737	2496
65°	2748	2443	2390
70°	2537	2275	2299
75°	2423	2281	2411
80°	2450	2433	2627
85°	2538	2504	2794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	4.2
10°-20°	544.5	12.0
20°-30°	795.2	17.5
30°-40°	886.1	19.5
40°-50°	798.4	17.6
50°-60°	596.8	13.2
60°-70°	393.7	8.7
70°-80°	240.3	5.3
80°-90°	89.2	2.0
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°	1532.4	33.8
0°-40°	2418.6	53.3
0°-60°	3813.8	84.1
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°	2040	2040	2040	2040	2040	
5°	2032	2030	2025	2035	2026	193
15°	1941	1933	1929	1941	1926	546
25°	1740	1734	1728	1732	1716	801
35°	1455	1442	1427	1402	1380	907
45°	1092	1080	1043	995	967	840
55°	727	716	666	610	597	651
65°	432	418	384	368	375	433
75°	233	229	219	227	232	249
85°	82	79	81	89	90	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2040.4	2040.4	2040.4	2040.4	2040.4
2.5°	2048.7	2039.4	2031.0	2043.5	2036.2
5°	2032.1	2030.0	2024.8	2035.2	2025.8
7.5°	2021.7	2014.4	2008.2	2020.6	2010.2
10°	1998.8	1994.6	1989.4	1999.8	1988.4
12.5°	1970.7	1966.6	1961.4	1973.8	1961.4
15°	1940.6	1933.3	1929.1	1940.6	1926.0
17.5°	1896.9	1893.8	1887.5	1899.0	1884.4
20°	1857.4	1845.9	1841.8	1850.1	1839.7
22.5°	1800.2	1791.9	1790.8	1796.0	1778.3
25°	1739.9	1733.6	1728.4	1731.5	1715.9
27.5°	1676.4	1668.1	1661.9	1660.8	1644.2
30°	1608.8	1598.4	1589.1	1580.7	1562.0
32.5°	1535.0	1522.5	1510.0	1496.5	1476.7
35°	1454.9	1442.4	1426.8	1401.9	1380.0
37.5°	1370.7	1356.1	1331.2	1302.0	1280.2
40°	1274.0	1266.7	1238.6	1201.2	1177.2
42.5°	1183.5	1175.2	1139.8	1098.2	1066.0
45°	1092.0	1080.5	1043.1	995.2	967.2
47.5°	998.4	986.9	945.3	886.0	861.1
50°	900.6	894.4	844.4	790.4	765.4
52.5°	811.2	803.9	752.9	698.9	676.0
55°	726.9	715.5	665.6	610.5	596.9
57.5°	642.7	630.2	583.4	536.6	527.3
60°	568.9	553.3	508.5	472.1	463.8
62.5°	499.2	481.5	444.1	416.0	411.8
65°	431.6	418.1	383.7	368.1	375.4
67.5°	373.3	359.8	334.9	328.6	326.5
70°	322.4	309.9	289.1	291.2	292.2
72.5°	275.6	268.3	252.7	257.9	262.1
75°	233.0	228.8	219.4	226.7	231.9
77.5°	194.5	191.4	187.2	193.4	201.8
80°	158.1	156.0	157.0	161.2	169.5
82.5°	121.7	117.5	120.6	129.0	134.2
85°	82.2	79.0	81.1	89.4	90.5
87.5°	38.5	38.5	37.4	43.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)