

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: P290653

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290653
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 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): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

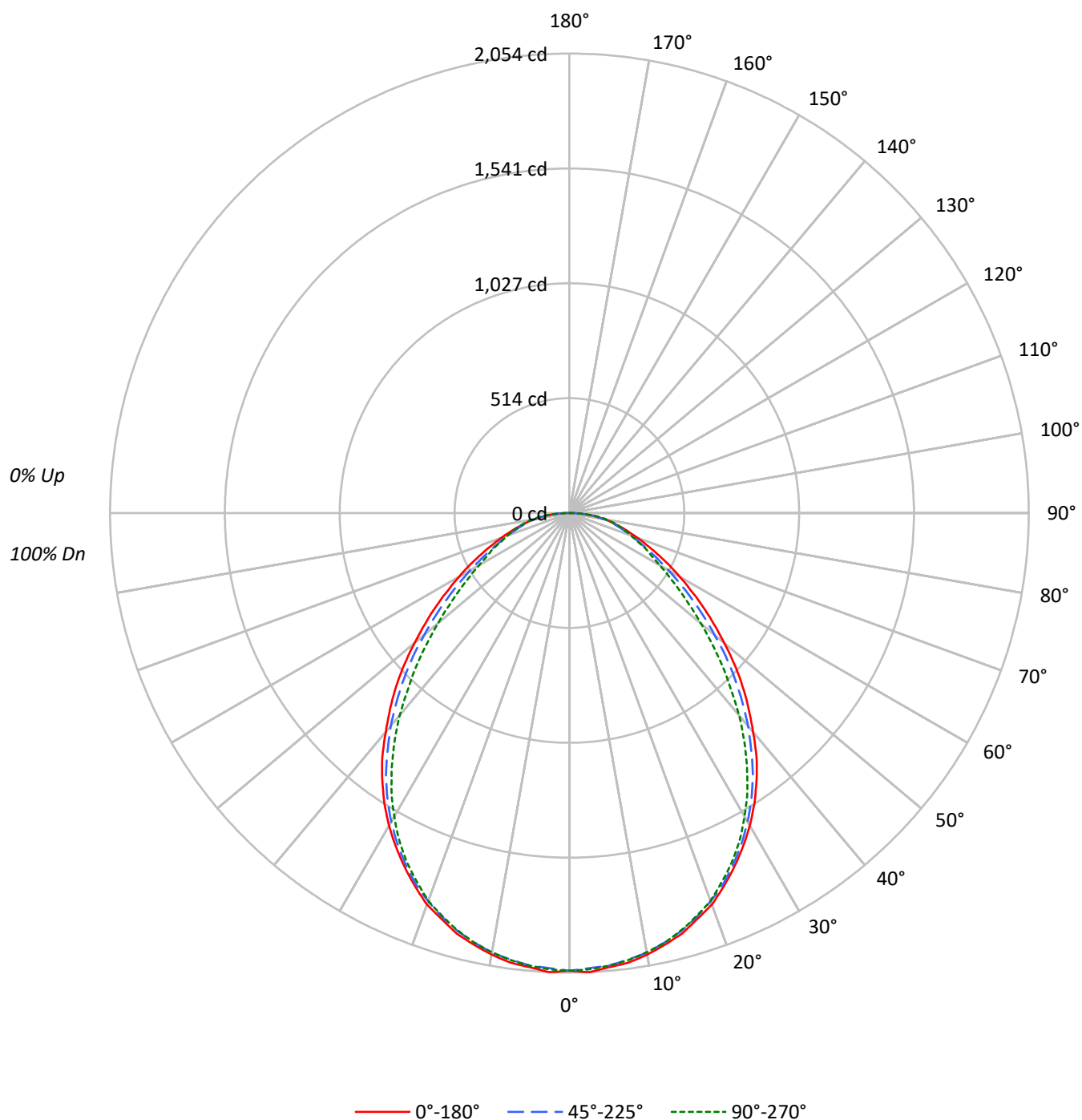
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			52	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5505	5505	5505
5°	5504	5484	5487
10°	5476	5451	5448
15°	5421	5388	5380
20°	5333	5288	5282
25°	5180	5146	5108
30°	5012	4951	4867
35°	4792	4700	4546
40°	4487	4363	4146
45°	4166	3980	3690
50°	3780	3545	3213
55°	3420	3131	2808
60°	3070	2744	2503
65°	2755	2450	2397
70°	2543	2281	2305
75°	2429	2287	2417
80°	2456	2439	2634
85°	2544	2510	2800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	4.2
10°-20°	546.0	12.0
20°-30°	797.4	17.5
30°-40°	888.5	19.5
40°-50°	800.5	17.6
50°-60°	598.4	13.2
60°-70°	394.7	8.7
70°-80°	241.0	5.3
80°-90°	89.4	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°	1536.5	33.8
0°-40°	2425.0	53.3
0°-60°	3823.9	84.1
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°	2046	2046	2046	2046	2046	
5°	2038	2035	2030	2041	2031	194
15°	1946	1938	1934	1946	1931	548
25°	1744	1738	1733	1736	1720	803
35°	1459	1446	1431	1406	1384	910
45°	1095	1083	1046	998	970	843
55°	729	717	667	612	598	653
65°	433	419	385	369	376	434
75°	234	229	220	227	232	249
85°	82	79	81	90	91	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.8	2045.8	2045.8	2045.8	2045.8
2.5°	2054.1	2044.8	2036.4	2048.9	2041.6
5°	2037.5	2035.4	2030.2	2040.6	2031.2
7.5°	2027.0	2019.7	2013.5	2026.0	2015.6
10°	2004.1	1999.9	1994.7	2005.1	1993.7
12.5°	1975.9	1971.8	1966.6	1979.1	1966.6
15°	1945.7	1938.4	1934.2	1945.7	1931.1
17.5°	1901.9	1898.8	1892.5	1904.0	1889.4
20°	1862.3	1850.8	1846.6	1855.0	1844.6
22.5°	1804.9	1796.6	1795.5	1800.8	1783.0
25°	1744.5	1738.2	1733.0	1736.1	1720.5
27.5°	1680.9	1672.5	1666.3	1665.2	1648.5
30°	1613.1	1602.6	1593.3	1584.9	1566.2
32.5°	1539.0	1526.5	1514.0	1500.5	1480.7
35°	1458.8	1446.2	1430.6	1405.6	1383.7
37.5°	1374.3	1359.7	1334.7	1305.5	1283.6
40°	1277.3	1270.0	1241.9	1204.3	1180.3
42.5°	1186.6	1178.3	1142.8	1101.1	1068.8
45°	1094.8	1083.4	1045.8	997.9	969.7
47.5°	1001.0	989.5	947.8	888.4	863.4
50°	903.0	896.7	846.7	792.5	767.4
52.5°	813.3	806.0	754.9	700.7	677.8
55°	728.9	717.4	667.3	612.1	598.5
57.5°	644.4	631.9	585.0	538.0	528.7
60°	570.4	554.7	509.9	473.4	465.0
62.5°	500.5	482.8	445.2	417.1	412.9
65°	432.7	419.2	384.8	369.1	376.4
67.5°	374.3	360.8	335.8	329.5	327.4
70°	323.2	310.7	289.9	292.0	293.0
72.5°	276.3	269.0	253.4	258.6	262.8
75°	233.6	229.4	220.0	227.3	232.5
77.5°	195.0	191.9	187.7	193.9	202.3
80°	158.5	156.4	157.4	161.6	170.0
82.5°	122.0	117.8	121.0	129.3	134.5
85°	82.4	79.2	81.3	89.7	90.7
87.5°	38.6	38.6	37.5	43.8	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)