

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: P290654

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290654
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4561.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

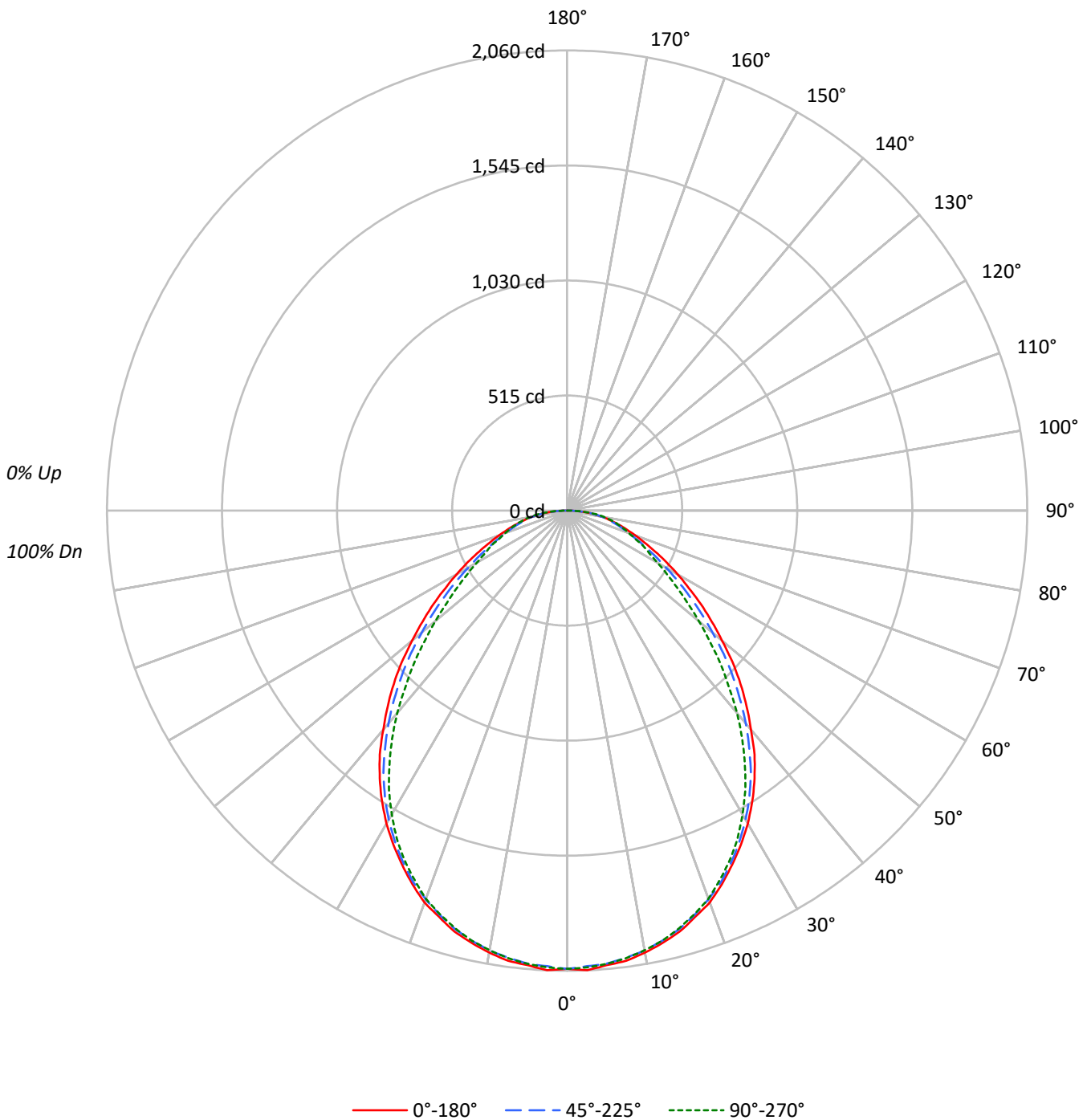
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5520	5520	5520
5°	5518	5498	5501
10°	5491	5465	5462
15°	5435	5403	5394
20°	5347	5302	5296
25°	5193	5159	5122
30°	5025	4964	4879
35°	4805	4712	4557
40°	4499	4374	4157
45°	4177	3991	3700
50°	3790	3554	3221
55°	3429	3139	2815
60°	3078	2751	2510
65°	2763	2457	2403
70°	2550	2286	2312
75°	2435	2294	2424
80°	2462	2447	2641
85°	2550	2516	2810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	4.2
10°-20°	547.4	12.0
20°-30°	799.5	17.5
30°-40°	890.8	19.5
40°-50°	802.6	17.6
50°-60°	600.0	13.2
60°-70°	395.8	8.7
70°-80°	241.6	5.3
80°-90°	89.6	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°	1540.5	33.8
0°-40°	2431.4	53.3
0°-60°	3834.0	84.1
0°-90°	4561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2051	2051	2051	2051	2051	
5°	2043	2041	2036	2046	2037	194
15°	1951	1944	1939	1951	1936	549
25°	1749	1743	1738	1741	1725	805
35°	1463	1450	1434	1409	1387	912
45°	1098	1086	1049	1000	972	845
55°	731	719	669	614	600	655
65°	434	420	386	370	377	435
75°	234	230	221	228	233	250
85°	83	80	82	90	91	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2059.6	2050.2	2041.8	2054.3	2047.0
5°	2042.8	2040.7	2035.5	2046.0	2036.6
7.5°	2032.4	2025.1	2018.8	2031.3	2020.9
10°	2009.4	2005.2	2000.0	2010.4	1998.9
12.5°	1981.2	1977.0	1971.7	1984.3	1971.7
15°	1950.8	1943.5	1939.3	1950.8	1936.2
17.5°	1906.9	1903.8	1897.5	1909.0	1894.4
20°	1867.2	1855.7	1851.5	1859.9	1849.4
22.5°	1809.7	1801.3	1800.3	1805.5	1787.7
25°	1749.1	1742.8	1737.6	1740.7	1725.0
27.5°	1685.3	1676.9	1670.6	1669.6	1652.9
30°	1617.3	1606.9	1597.5	1589.1	1570.3
32.5°	1543.1	1530.6	1518.0	1504.4	1484.6
35°	1462.6	1450.1	1434.4	1409.3	1387.3
37.5°	1377.9	1363.3	1338.2	1308.9	1287.0
40°	1280.7	1273.4	1245.1	1207.5	1183.5
42.5°	1189.7	1181.4	1145.8	1104.0	1071.6
45°	1097.7	1086.2	1048.6	1000.5	972.3
47.5°	1003.6	992.1	950.3	890.7	865.6
50°	905.4	899.1	848.9	794.6	769.5
52.5°	815.5	808.1	756.9	702.6	679.6
55°	730.8	719.3	669.1	613.7	600.1
57.5°	646.1	633.6	586.5	539.5	530.0
60°	571.9	556.2	511.2	474.6	466.3
62.5°	501.8	484.0	446.4	418.2	414.0
65°	433.9	420.3	385.8	370.1	377.4
67.5°	375.3	361.7	336.6	330.4	328.3
70°	324.1	311.5	290.6	292.7	293.8
72.5°	277.0	269.7	254.0	259.3	263.5
75°	234.2	230.0	220.6	227.9	233.1
77.5°	195.5	192.4	188.2	194.5	202.8
80°	158.9	156.8	157.9	162.0	170.4
82.5°	122.3	118.1	121.3	129.6	134.9
85°	82.6	79.5	81.5	89.9	91.0
87.5°	38.7	38.7	37.6	43.9	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)