

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: P290638

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290638
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-LD5-40-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

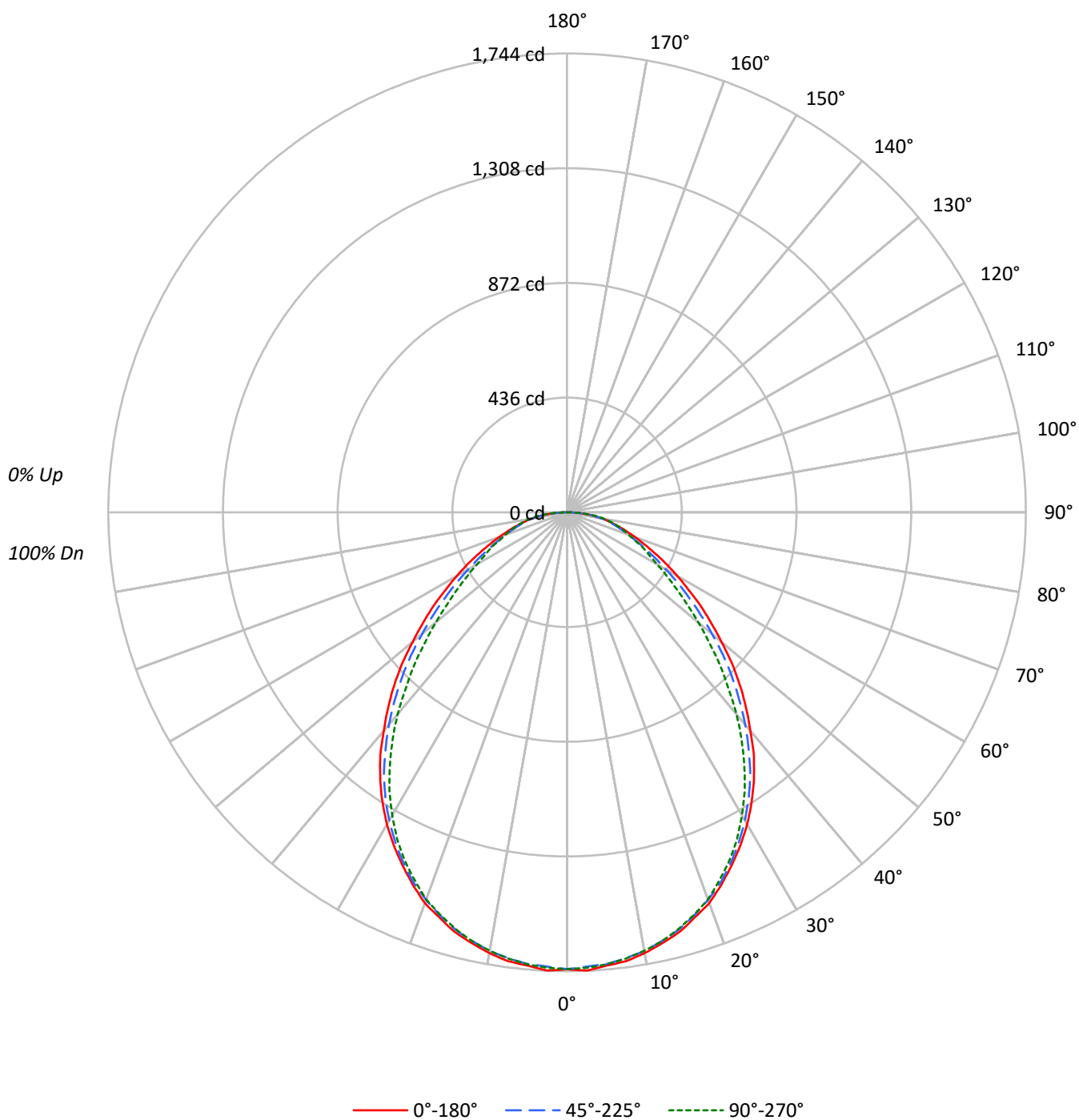
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4673	4673	4673
5°	4671	4655	4657
10°	4648	4626	4624
15°	4601	4574	4566
20°	4526	4489	4483
25°	4396	4367	4336
30°	4254	4202	4131
35°	4067	3989	3858
40°	3808	3703	3519
45°	3537	3378	3132
50°	3208	3008	2727
55°	2902	2657	2383
60°	2605	2329	2124
65°	2339	2080	2034
70°	2159	1936	1957
75°	2061	1941	2052
80°	2084	2070	2236
85°	2158	2130	2377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	4.2
10°-20°	463.4	12.0
20°-30°	676.8	17.5
30°-40°	754.1	19.5
40°-50°	679.5	17.6
50°-60°	507.9	13.2
60°-70°	335.0	8.7
70°-80°	204.5	5.3
80°-90°	75.9	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°	1304.1	33.8
0°-40°	2058.2	53.3
0°-60°	3245.6	84.1
0°-90°	3861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1729	1728	1723	1732	1724	164
15°	1651	1645	1642	1651	1639	465
25°	1481	1475	1471	1474	1460	681
35°	1238	1228	1214	1193	1174	772
45°	929	920	888	847	823	715
55°	619	609	566	520	508	554
65°	367	356	327	313	320	368
75°	198	195	187	193	197	212
85°	70	67	69	76	77	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.4	1736.4	1736.4	1736.4	1736.4
2.5°	1743.5	1735.5	1728.4	1739.0	1732.8
5°	1729.3	1727.5	1723.1	1732.0	1724.0
7.5°	1720.5	1714.3	1709.0	1719.6	1710.7
10°	1701.0	1697.4	1693.0	1701.9	1692.1
12.5°	1677.1	1673.6	1669.1	1679.7	1669.1
15°	1651.4	1645.2	1641.7	1651.4	1639.0
17.5°	1614.3	1611.6	1606.3	1616.0	1603.6
20°	1580.6	1570.9	1567.4	1574.4	1565.6
22.5°	1532.0	1524.9	1524.0	1528.4	1513.4
25°	1480.6	1475.3	1470.9	1473.5	1460.3
27.5°	1426.6	1419.6	1414.2	1413.4	1399.2
30°	1369.1	1360.3	1352.3	1345.2	1329.3
32.5°	1306.3	1295.7	1285.0	1273.5	1256.7
35°	1238.1	1227.5	1214.2	1193.0	1174.4
37.5°	1166.4	1154.1	1132.8	1108.0	1089.4
40°	1084.1	1077.9	1054.0	1022.2	1001.8
42.5°	1007.1	1000.1	970.0	934.6	907.1
45°	929.3	919.5	887.7	847.0	823.1
47.5°	849.6	839.9	804.5	754.0	732.8
50°	766.4	761.1	718.6	672.6	651.4
52.5°	690.3	684.1	640.7	594.7	575.3
55°	618.6	608.9	566.4	519.5	508.0
57.5°	546.9	536.3	496.5	456.7	448.7
60°	484.1	470.8	432.8	401.8	394.7
62.5°	424.8	409.8	377.9	354.0	350.5
65°	367.3	355.8	326.6	313.3	319.5
67.5°	317.7	306.2	285.0	279.7	277.9
70°	274.4	263.7	246.0	247.8	248.7
72.5°	234.5	228.3	215.1	219.5	223.0
75°	198.2	194.7	186.7	192.9	197.4
77.5°	165.5	162.8	159.3	164.6	171.7
80°	134.5	132.8	133.6	137.2	144.3
82.5°	103.5	100.0	102.7	109.7	114.2
85°	69.9	67.3	69.0	76.1	77.0
87.5°	32.7	32.7	31.9	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)