

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: P476384

Luminaire Tested: **14GR-LD5-60-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476384
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-FGW080-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5328.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

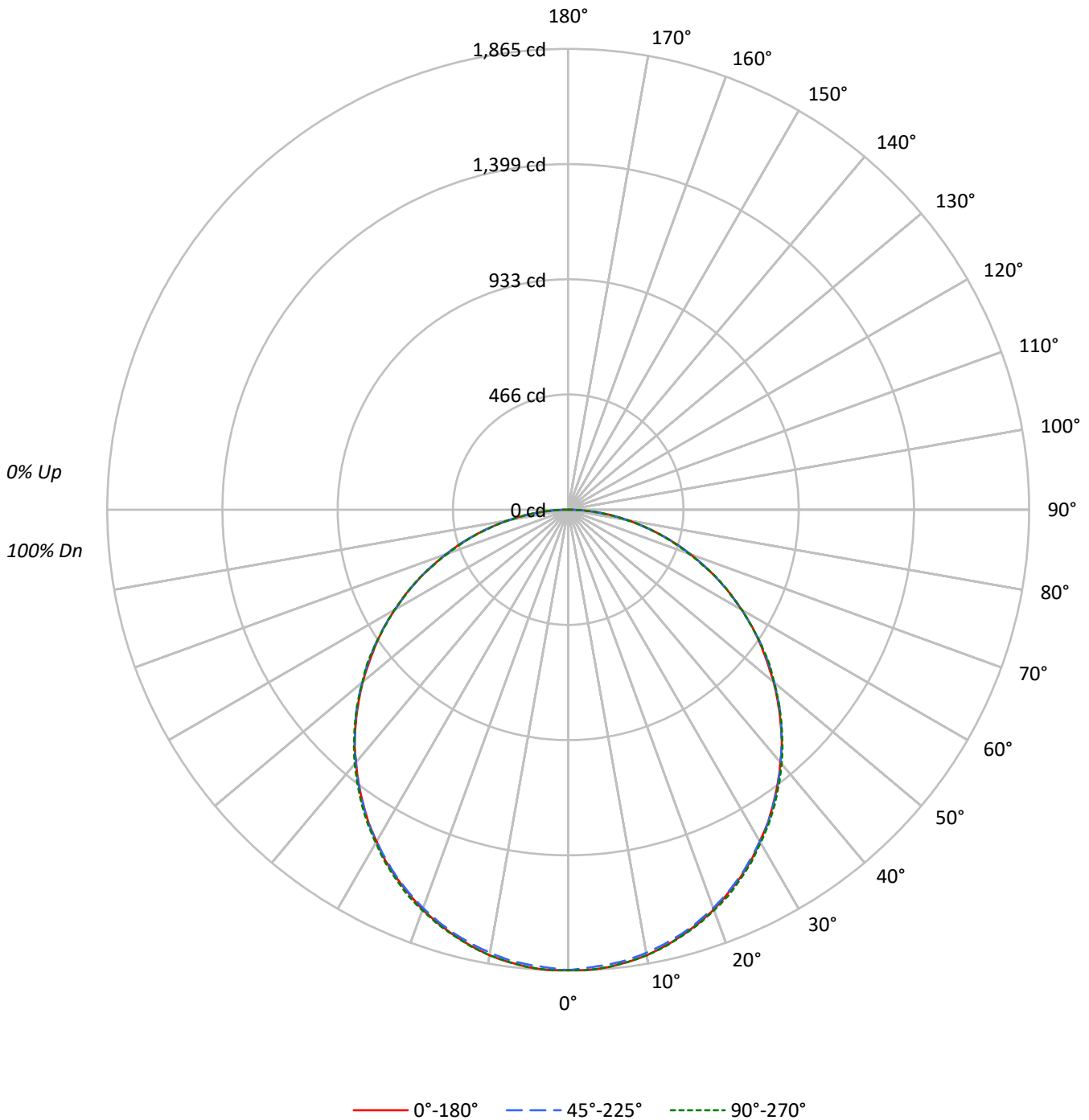
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5015	5015	5015
5°	5020	4993	5020
10°	5003	4975	5003
15°	4968	4950	4973
20°	4931	4913	4941
25°	4881	4871	4896
30°	4817	4817	4837
35°	4757	4762	4784
40°	4691	4697	4721
45°	4622	4635	4642
50°	4543	4557	4550
55°	4451	4476	4467
60°	4363	4363	4363
65°	4264	4264	4283
70°	4128	4128	4087
75°	3983	3965	3948
80°	3804	3778	3752
85°	3569	3529	3424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	3.3
10°-20°	502.9	9.4
20°-30°	757.9	14.2
30°-40°	908.2	17.0
40°-50°	939.2	17.6
50°-60°	851.6	16.0
60°-70°	661.8	12.4
70°-80°	404.2	7.6
80°-90°	126.6	2.4
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°	1437.0	27.0
0°-40°	2345.3	44.0
0°-60°	4136.1	77.6
0°-90°	5328.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1858	1857	1848	1857	1858	177
15°	1783	1783	1777	1785	1785	503
25°	1644	1644	1640	1651	1649	757
35°	1448	1450	1450	1456	1456	906
45°	1215	1216	1218	1220	1220	937
55°	949	952	954	954	952	849
65°	670	670	670	666	673	661
75°	383	383	381	380	380	405
85°	116	113	114	111	111	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.5	1863.5	1863.5	1863.5	1863.5
2.5°	1865.2	1863.5	1854.9	1863.5	1865.2
5°	1858.3	1856.6	1848.4	1856.6	1858.3
7.5°	1846.7	1846.7	1838.0	1846.7	1846.7
10°	1831.1	1829.4	1820.8	1829.4	1831.1
12.5°	1809.1	1809.1	1800.5	1809.1	1810.9
15°	1783.2	1783.2	1776.8	1785.0	1785.0
17.5°	1754.3	1756.1	1747.9	1757.8	1757.8
20°	1722.0	1720.2	1715.5	1723.7	1725.4
22.5°	1683.1	1684.9	1679.7	1689.6	1691.3
25°	1643.9	1643.9	1640.4	1650.8	1649.1
27.5°	1601.2	1601.2	1596.0	1604.6	1606.3
30°	1550.3	1552.0	1550.3	1558.4	1556.7
32.5°	1502.4	1504.1	1504.1	1507.5	1509.3
35°	1448.0	1449.7	1449.7	1456.2	1456.2
37.5°	1393.2	1393.2	1394.9	1400.1	1400.1
40°	1335.4	1337.1	1337.1	1342.3	1344.0
42.5°	1279.3	1275.8	1277.6	1282.7	1282.7
45°	1214.6	1216.3	1218.0	1219.7	1219.7
47.5°	1149.9	1153.3	1155.0	1156.8	1155.0
50°	1085.1	1088.6	1088.6	1086.9	1086.9
52.5°	1015.2	1023.9	1022.1	1022.1	1025.6
55°	948.8	952.2	954.0	954.0	952.2
57.5°	882.3	885.8	882.3	884.1	880.6
60°	810.7	812.4	810.7	810.7	810.7
62.5°	740.8	742.5	739.1	739.1	739.1
65°	669.6	669.6	669.6	666.2	672.7
67.5°	594.6	598.0	598.0	599.7	592.8
70°	524.7	526.4	524.7	522.9	519.5
72.5°	454.8	456.5	458.2	451.3	449.6
75°	383.1	383.1	381.4	379.7	379.7
77.5°	313.2	313.2	313.2	310.2	310.2
80°	245.5	246.8	243.8	243.8	242.1
82.5°	179.1	179.1	179.1	177.3	173.9
85°	115.6	112.6	114.3	110.9	110.9
87.5°	52.6	52.6	52.6	49.2	56.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)