

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: P476375

Luminaire Tested: **14GR-LD5-60-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476375  
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-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5323.5 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

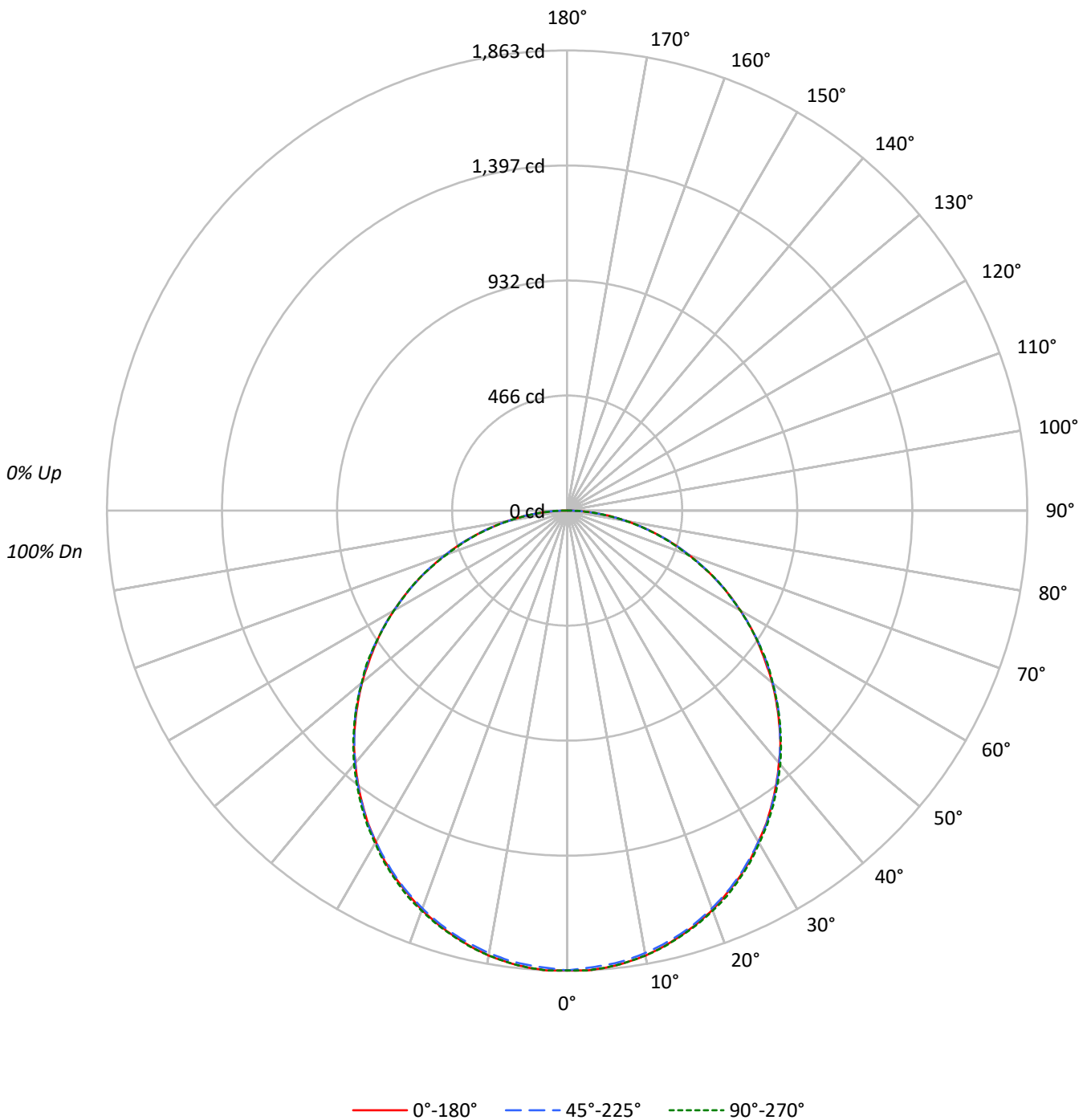
Input Watts (W): 52.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5010	5010	5010
5°	5015	4988	5015
10°	4999	4970	4999
15°	4963	4945	4968
20°	4926	4908	4936
25°	4876	4866	4891
30°	4812	4812	4832
35°	4752	4758	4779
40°	4686	4692	4717
45°	4618	4631	4638
50°	4538	4553	4546
55°	4447	4471	4463
60°	4359	4359	4359
65°	4260	4260	4279
70°	4124	4124	4083
75°	3980	3961	3944
80°	3801	3773	3747
85°	3566	3526	3421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	3.3
10°-20°	502.4	9.4
20°-30°	757.2	14.2
30°-40°	907.3	17.0
40°-50°	938.3	17.6
50°-60°	850.8	16.0
60°-70°	661.2	12.4
70°-80°	403.8	7.6
80°-90°	126.5	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°	1435.6	27.0
0°-40°	2343.0	44.0
0°-60°	4132.1	77.6
0°-90°	5323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5323.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1856	1855	1847	1855	1856	176
15°	1782	1782	1775	1783	1783	503
25°	1642	1642	1639	1649	1647	757
35°	1447	1448	1448	1455	1455	905
45°	1213	1215	1217	1219	1219	936
55°	948	951	953	953	951	848
65°	669	669	669	666	672	661
75°	383	383	381	379	379	405
85°	116	112	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°	1861.7	1861.7	1861.7	1861.7	1861.7
2.5°	1863.4	1861.7	1853.0	1861.7	1863.4
5°	1856.5	1854.8	1846.6	1854.8	1856.5
7.5°	1844.9	1844.9	1836.2	1844.9	1844.9
10°	1829.3	1827.6	1819.0	1827.6	1829.3
12.5°	1807.4	1807.4	1798.7	1807.4	1809.1
15°	1781.5	1781.5	1775.0	1783.2	1783.2
17.5°	1752.6	1754.3	1746.1	1756.1	1756.1
20°	1720.3	1718.6	1713.8	1722.0	1723.7
22.5°	1681.5	1683.2	1678.0	1688.0	1689.7
25°	1642.3	1642.3	1638.8	1649.2	1647.4
27.5°	1599.6	1599.6	1594.4	1603.0	1604.8
30°	1548.7	1550.5	1548.7	1556.9	1555.2
32.5°	1500.9	1502.6	1502.6	1506.1	1507.8
35°	1446.6	1448.3	1448.3	1454.8	1454.8
37.5°	1391.8	1391.8	1393.6	1398.7	1398.7
40°	1334.1	1335.8	1335.8	1341.0	1342.7
42.5°	1278.0	1274.6	1276.3	1281.5	1281.5
45°	1213.4	1215.1	1216.8	1218.6	1218.6
47.5°	1148.7	1152.2	1153.9	1155.6	1153.9
50°	1084.1	1087.5	1087.5	1085.8	1085.8
52.5°	1014.2	1022.9	1021.1	1021.1	1024.6
55°	947.9	951.3	953.0	953.0	951.3
57.5°	881.5	884.9	881.5	883.2	879.8
60°	809.9	811.7	809.9	809.9	809.9
62.5°	740.1	741.8	738.4	738.4	738.4
65°	669.0	669.0	669.0	665.5	672.0
67.5°	594.0	597.4	597.4	599.1	592.3
70°	524.1	525.9	524.1	522.4	519.0
72.5°	454.3	456.0	457.8	450.9	449.1
75°	382.8	382.8	381.0	379.3	379.3
77.5°	312.9	312.9	312.9	309.9	309.9
80°	245.3	246.6	243.5	243.5	241.8
82.5°	178.9	178.9	178.9	177.2	173.7
85°	115.5	112.5	114.2	110.8	110.8
87.5°	52.6	52.6	52.6	49.1	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)