

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: P476366

Luminaire Tested: **14GR-LD5-60-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476366
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5224.2 lumens
Efficiency: N/A
Efficacy: 100.3 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

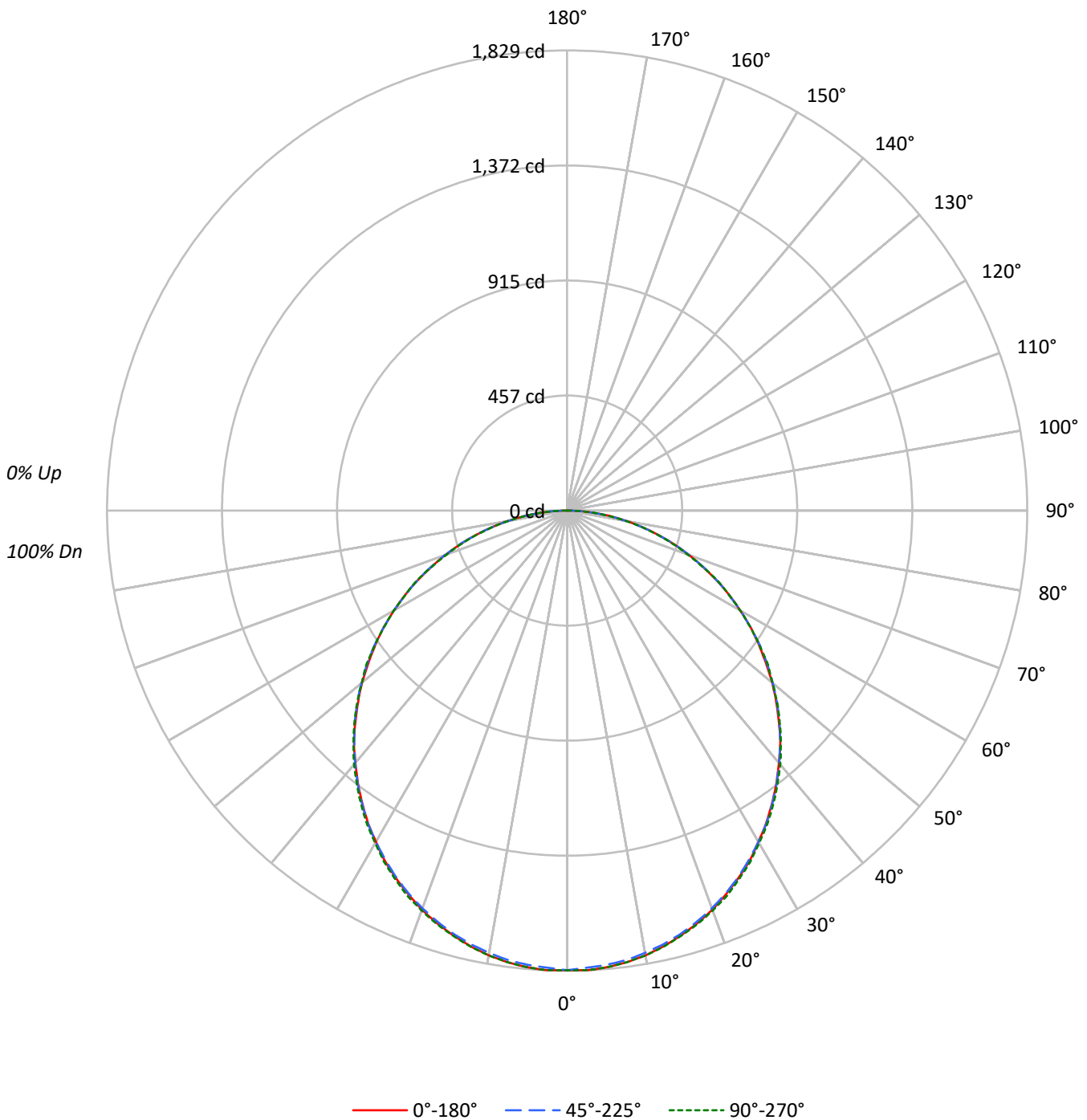
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4916	4916	4916
5°	4921	4895	4921
10°	4905	4878	4905
15°	4871	4853	4875
20°	4834	4816	4844
25°	4785	4775	4800
30°	4723	4723	4742
35°	4663	4669	4690
40°	4599	4605	4629
45°	4532	4544	4551
50°	4454	4468	4461
55°	4364	4388	4380
60°	4278	4278	4278
65°	4180	4180	4199
70°	4047	4047	4007
75°	3905	3887	3870
80°	3730	3704	3677
85°	3501	3461	3356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.3
10°-20°	493.0	9.4
20°-30°	743.0	14.2
30°-40°	890.4	17.0
40°-50°	920.8	17.6
50°-60°	834.9	16.0
60°-70°	648.8	12.4
70°-80°	396.2	7.6
80°-90°	124.1	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°	1408.9	27.0
0°-40°	2299.3	44.0
0°-60°	4055.0	77.6
0°-90°	5224.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5224.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1822	1820	1812	1820	1822	173
15°	1748	1748	1742	1750	1750	493
25°	1612	1612	1608	1618	1617	742
35°	1420	1421	1421	1428	1428	888
45°	1191	1192	1194	1196	1196	919
55°	930	934	935	935	934	832
65°	656	656	656	653	660	648
75°	376	376	374	372	372	397
85°	113	110	112	109	109	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.0	1827.0	1827.0	1827.0	1827.0
2.5°	1828.6	1827.0	1818.5	1827.0	1828.6
5°	1821.9	1820.2	1812.1	1820.2	1821.9
7.5°	1810.5	1810.5	1802.0	1810.5	1810.5
10°	1795.2	1793.5	1785.1	1793.5	1795.2
12.5°	1773.7	1773.7	1765.2	1773.7	1775.3
15°	1748.3	1748.3	1741.9	1750.0	1750.0
17.5°	1719.9	1721.6	1713.6	1723.3	1723.3
20°	1688.2	1686.5	1681.9	1689.9	1691.6
22.5°	1650.1	1651.8	1646.8	1656.5	1658.2
25°	1611.6	1611.6	1608.3	1618.4	1616.7
27.5°	1569.8	1569.8	1564.7	1573.2	1574.8
30°	1519.9	1521.5	1519.9	1527.9	1526.2
32.5°	1472.9	1474.6	1474.6	1478.0	1479.7
35°	1419.6	1421.3	1421.3	1427.6	1427.6
37.5°	1365.9	1365.9	1367.6	1372.6	1372.6
40°	1309.2	1310.9	1310.9	1316.0	1317.7
42.5°	1254.2	1250.8	1252.5	1257.6	1257.6
45°	1190.8	1192.4	1194.1	1195.8	1195.8
47.5°	1127.3	1130.7	1132.4	1134.1	1132.4
50°	1063.9	1067.2	1067.2	1065.5	1065.5
52.5°	995.3	1003.8	1002.1	1002.1	1005.5
55°	930.2	933.6	935.3	935.3	933.6
57.5°	865.0	868.4	865.0	866.7	863.4
60°	794.8	796.5	794.8	794.8	794.8
62.5°	726.3	728.0	724.6	724.6	724.6
65°	656.5	656.5	656.5	653.1	659.5
67.5°	582.9	586.3	586.3	588.0	581.2
70°	514.4	516.1	514.4	512.7	509.3
72.5°	445.8	447.5	449.2	442.5	440.8
75°	375.6	375.6	373.9	372.2	372.2
77.5°	307.1	307.1	307.1	304.1	304.1
80°	240.7	242.0	239.0	239.0	237.3
82.5°	175.5	175.5	175.5	173.9	170.5
85°	113.4	110.4	112.1	108.7	108.7
87.5°	51.6	51.6	51.6	48.2	55.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)