

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: P476211

Luminaire Tested: **14GR-LD5-43-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476211
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.6 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

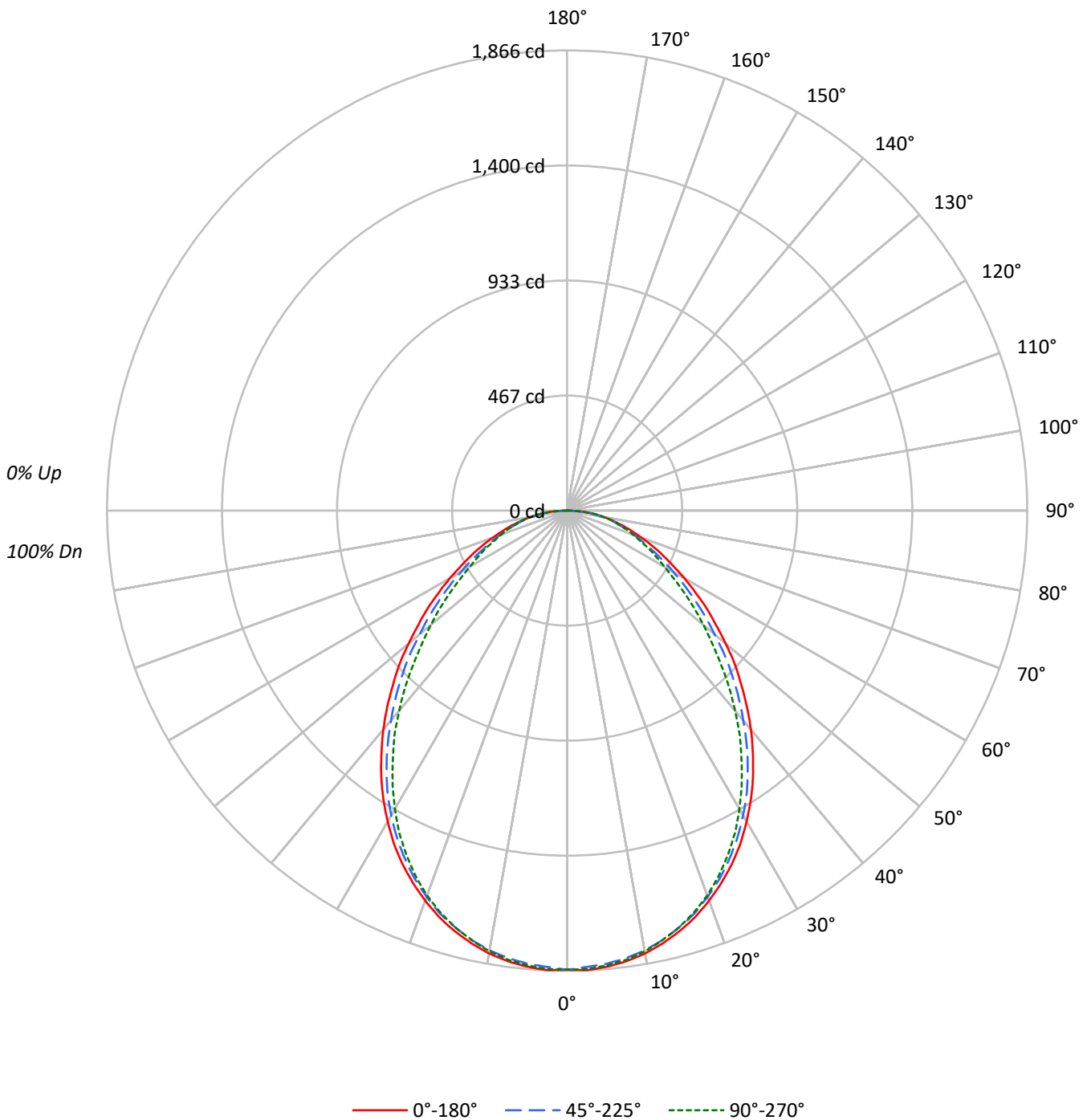
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5010	5010	5010
5°	5016	4982	5000
10°	4982	4949	4959
15°	4917	4877	4877
20°	4819	4773	4756
25°	4693	4625	4576
30°	4522	4433	4341
35°	4319	4193	4049
40°	4074	3903	3721
45°	3799	3602	3358
50°	3511	3266	3022
55°	3239	2961	2718
60°	2954	2676	2455
65°	2716	2429	2320
70°	2520	2272	2227
75°	2406	2207	2247
80°	2356	2222	2342
85°	2421	2186	2331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	4.2
10°-20°	494.4	11.8
20°-30°	717.2	17.2
30°-40°	796.3	19.1
40°-50°	728.5	17.4
50°-60°	567.5	13.6
60°-70°	387.8	9.3
70°-80°	231.6	5.5
80°-90°	80.5	1.9
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°	1387.3	33.2
0°-40°	2183.6	52.2
0°-60°	3479.7	83.3
0°-90°	4179.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1857	1853	1844	1854	1851	176
15°	1765	1760	1751	1757	1751	497
25°	1580	1574	1558	1553	1541	727
35°	1315	1303	1276	1250	1232	820
45°	998	985	947	903	882	771
55°	690	669	631	594	579	617
65°	426	410	382	364	364	425
75°	231	222	212	216	216	245
85°	78	75	71	77	76	84
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°	1865.5	1860.7	1852.1	1861.7	1860.7
5°	1856.9	1853.1	1844.5	1854.0	1851.1
7.5°	1843.5	1839.7	1830.1	1840.6	1836.8
10°	1823.4	1818.6	1811.0	1818.6	1814.8
12.5°	1796.6	1791.9	1784.2	1790.9	1784.2
15°	1765.1	1760.3	1750.7	1757.4	1750.7
17.5°	1727.8	1721.1	1713.5	1714.4	1708.7
20°	1682.9	1676.2	1666.6	1666.6	1660.9
22.5°	1634.1	1627.4	1615.9	1612.1	1604.5
25°	1580.5	1573.9	1557.6	1552.8	1541.3
27.5°	1522.2	1511.7	1495.4	1484.9	1473.5
30°	1455.3	1446.7	1426.6	1411.3	1397.0
32.5°	1387.4	1378.8	1355.8	1332.9	1317.6
35°	1314.7	1303.3	1276.5	1249.7	1232.5
37.5°	1236.3	1226.8	1196.2	1163.7	1150.3
40°	1159.8	1147.4	1111.1	1077.6	1059.4
42.5°	1079.5	1066.1	1029.8	991.5	971.5
45°	998.2	984.9	946.6	902.6	882.5
47.5°	922.7	905.5	865.3	821.3	797.4
50°	838.6	824.2	780.2	738.2	721.9
52.5°	760.2	746.8	705.7	664.5	649.2
55°	690.4	669.3	631.1	593.8	579.4
57.5°	615.8	598.6	562.2	526.8	512.5
60°	548.8	535.5	497.2	466.6	456.1
62.5°	482.9	472.3	437.0	414.0	407.3
65°	426.5	410.2	381.5	364.3	364.3
67.5°	372.9	356.7	331.8	325.1	319.4
70°	320.3	307.9	288.8	283.0	283.0
72.5°	273.5	262.9	249.6	247.6	251.5
75°	231.4	221.8	212.3	216.1	216.1
77.5°	189.3	182.6	178.8	180.7	184.5
80°	152.0	147.3	143.4	148.2	151.1
82.5°	116.7	111.9	109.0	115.7	114.7
85°	78.4	74.6	70.8	77.4	75.5
87.5°	39.2	37.3	30.6	34.4	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)