

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: P476238

Luminaire Tested: **14GR-LD5-43-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476238
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4417.8 lumens
Efficiency: N/A
Efficacy: 133.9 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

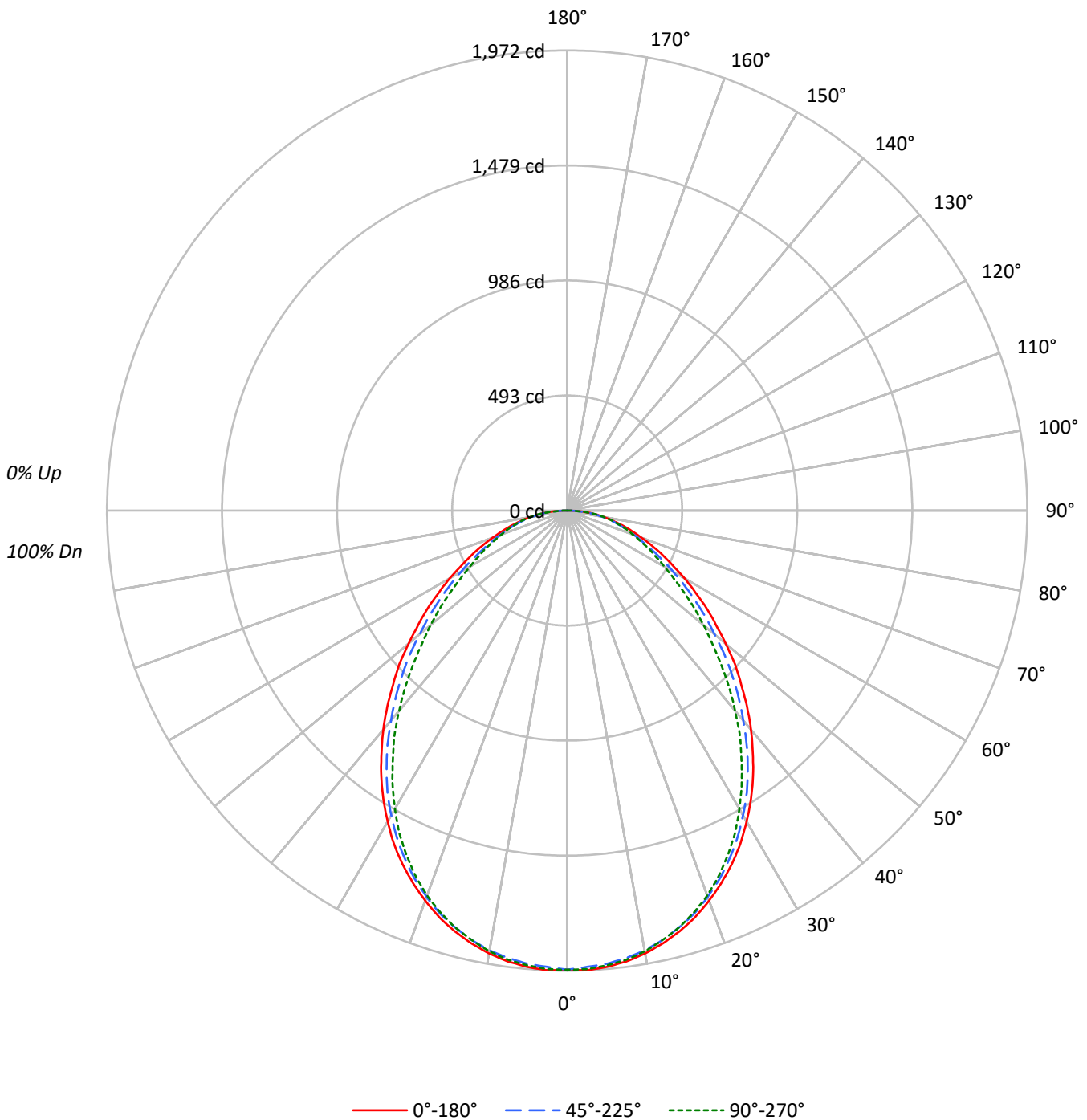
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5295	5295	5295
5°	5302	5266	5285
10°	5266	5231	5241
15°	5198	5155	5155
20°	5094	5045	5027
25°	4960	4888	4837
30°	4780	4685	4588
35°	4565	4432	4279
40°	4306	4125	3934
45°	4015	3808	3550
50°	3711	3453	3195
55°	3423	3129	2874
60°	3122	2828	2595
65°	2870	2568	2452
70°	2664	2401	2354
75°	2543	2333	2375
80°	2490	2349	2475
85°	2560	2309	2464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	4.2
10°-20°	522.6	11.8
20°-30°	758.1	17.2
30°-40°	841.7	19.1
40°-50°	770.1	17.4
50°-60°	599.9	13.6
60°-70°	409.9	9.3
70°-80°	244.8	5.5
80°-90°	85.1	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°	1466.3	33.2
0°-40°	2308.0	52.2
0°-60°	3678.0	83.3
0°-90°	4417.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4417.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1963	1959	1950	1960	1957	186
15°	1866	1861	1850	1858	1850	525
25°	1671	1664	1646	1641	1629	768
35°	1390	1378	1349	1321	1303	867
45°	1055	1041	1001	954	933	815
55°	730	708	667	628	612	652
65°	451	434	403	385	385	449
75°	245	234	224	228	228	259
85°	83	79	75	82	80	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.8	1967.8	1967.8	1967.8	1967.8
2.5°	1971.8	1966.8	1957.7	1967.8	1966.8
5°	1962.7	1958.7	1949.6	1959.7	1956.6
7.5°	1948.6	1944.5	1934.4	1945.5	1941.5
10°	1927.3	1922.3	1914.2	1922.3	1918.2
12.5°	1899.0	1894.0	1885.9	1893.0	1885.9
15°	1865.7	1860.6	1850.5	1857.6	1850.5
17.5°	1826.3	1819.2	1811.1	1812.1	1806.1
20°	1778.8	1771.7	1761.6	1761.6	1755.5
22.5°	1727.2	1720.2	1708.0	1704.0	1695.9
25°	1670.6	1663.6	1646.4	1641.3	1629.2
27.5°	1609.0	1597.9	1580.7	1569.6	1557.4
30°	1538.2	1529.1	1507.9	1491.7	1476.6
32.5°	1466.5	1457.4	1433.1	1408.9	1392.7
35°	1389.7	1377.5	1349.2	1320.9	1302.7
37.5°	1306.8	1296.7	1264.3	1230.0	1215.8
40°	1225.9	1212.8	1174.4	1139.0	1119.8
42.5°	1141.0	1126.9	1088.5	1048.1	1026.8
45°	1055.1	1041.0	1000.6	954.1	932.8
47.5°	975.3	957.1	914.7	868.2	842.9
50°	886.4	871.2	824.7	780.2	763.1
52.5°	803.5	789.3	745.9	702.4	686.2
55°	729.7	707.5	667.0	627.6	612.5
57.5°	650.9	632.7	594.3	556.9	541.7
60°	580.1	566.0	525.5	493.2	482.1
62.5°	510.4	499.3	461.9	437.6	430.5
65°	450.8	433.6	403.3	385.1	385.1
67.5°	394.2	377.0	350.7	343.6	337.6
70°	338.6	325.4	305.2	299.2	299.2
72.5°	289.1	277.9	263.8	261.8	265.8
75°	244.6	234.5	224.4	228.4	228.4
77.5°	200.1	193.0	189.0	191.0	195.1
80°	160.7	155.6	151.6	156.7	159.7
82.5°	123.3	118.2	115.2	122.3	121.3
85°	82.9	78.8	74.8	81.9	79.8
87.5°	41.4	39.4	32.3	36.4	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)