

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: P476227

Luminaire Tested: **14GR-LD5-36-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476227
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3784.7 lumens
Efficiency: N/A
Efficacy: 130.5 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

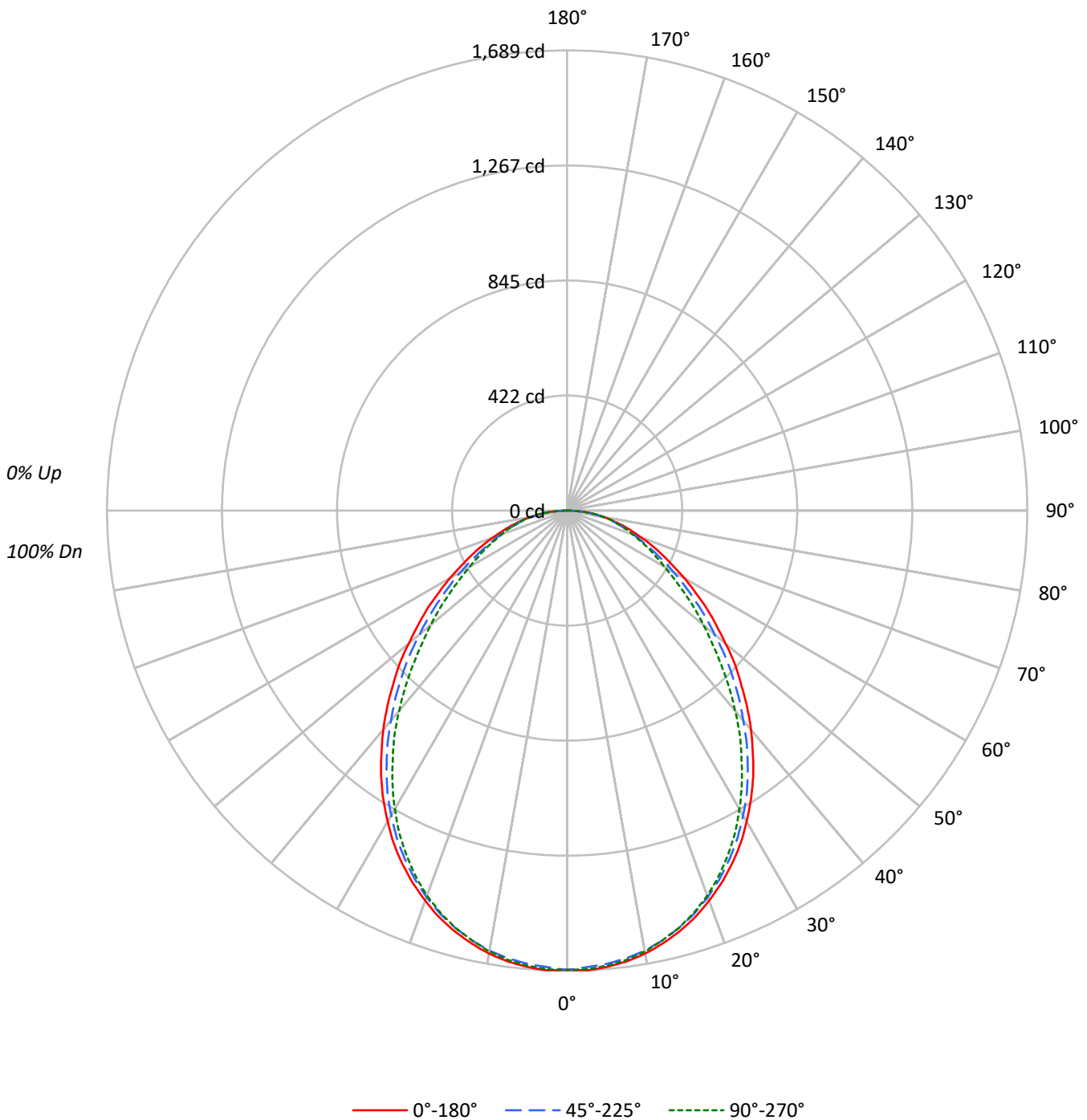
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4536	4536	4536
5°	4542	4512	4528
10°	4512	4481	4491
15°	4453	4416	4416
20°	4364	4322	4307
25°	4249	4188	4144
30°	4095	4014	3931
35°	3911	3797	3666
40°	3690	3534	3370
45°	3440	3262	3041
50°	3179	2958	2737
55°	2933	2681	2462
60°	2675	2423	2223
65°	2459	2200	2101
70°	2282	2057	2017
75°	2178	1998	2035
80°	2134	2013	2120
85°	2192	1979	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	4.2
10°-20°	447.7	11.8
20°-30°	649.5	17.2
30°-40°	721.1	19.1
40°-50°	659.7	17.4
50°-60°	513.9	13.6
60°-70°	351.1	9.3
70°-80°	209.7	5.5
80°-90°	72.9	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°	1256.2	33.2
0°-40°	1977.3	52.2
0°-60°	3151.0	83.3
0°-90°	3784.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1682	1678	1670	1679	1676	160
15°	1598	1594	1585	1591	1585	450
25°	1431	1425	1410	1406	1396	658
35°	1190	1180	1156	1132	1116	743
45°	904	892	857	817	799	698
55°	625	606	572	538	525	558
65°	386	371	346	330	330	385
75°	210	201	192	196	196	222
85°	71	68	64	70	68	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1689.2	1684.9	1677.1	1685.8	1684.9
5°	1681.5	1678.0	1670.2	1678.9	1676.3
7.5°	1669.3	1665.9	1657.2	1666.7	1663.3
10°	1651.1	1646.8	1639.9	1646.8	1643.4
12.5°	1626.9	1622.6	1615.6	1621.7	1615.6
15°	1598.3	1594.0	1585.3	1591.4	1585.3
17.5°	1564.6	1558.5	1551.6	1552.4	1547.2
20°	1523.9	1517.8	1509.2	1509.2	1504.0
22.5°	1479.7	1473.7	1463.3	1459.8	1452.9
25°	1431.2	1425.2	1410.4	1406.1	1395.7
27.5°	1378.4	1368.9	1354.2	1344.6	1334.3
30°	1317.8	1310.0	1291.8	1278.0	1265.0
32.5°	1256.3	1248.5	1227.8	1207.0	1193.1
35°	1190.5	1180.1	1155.9	1131.6	1116.1
37.5°	1119.5	1110.9	1083.2	1053.7	1041.6
40°	1050.3	1039.0	1006.1	975.8	959.3
42.5°	977.5	965.4	932.5	897.9	879.7
45°	903.9	891.8	857.2	817.3	799.2
47.5°	835.5	819.9	783.6	743.8	722.1
50°	759.3	746.4	706.5	668.4	653.7
52.5°	688.3	676.2	639.0	601.8	587.9
55°	625.1	606.1	571.5	537.7	524.7
57.5°	557.6	542.0	509.1	477.1	464.1
60°	497.0	484.9	450.2	422.5	413.0
62.5°	437.2	427.7	395.7	374.9	368.8
65°	386.2	371.4	345.5	329.9	329.9
67.5°	337.7	323.0	300.4	294.4	289.2
70°	290.1	278.8	261.5	256.3	256.3
72.5°	247.6	238.1	226.0	224.3	227.7
75°	209.5	200.9	192.2	195.7	195.7
77.5°	171.4	165.4	161.9	163.6	167.1
80°	137.7	133.3	129.9	134.2	136.8
82.5°	105.6	101.3	98.7	104.8	103.9
85°	71.0	67.5	64.1	70.1	68.4
87.5°	35.5	33.8	27.7	31.2	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)