

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: P476209

Luminaire Tested: **14GR-LD5-36-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476209
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-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: 3584.2 lumens
Efficiency: N/A
Efficacy: 123.6 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

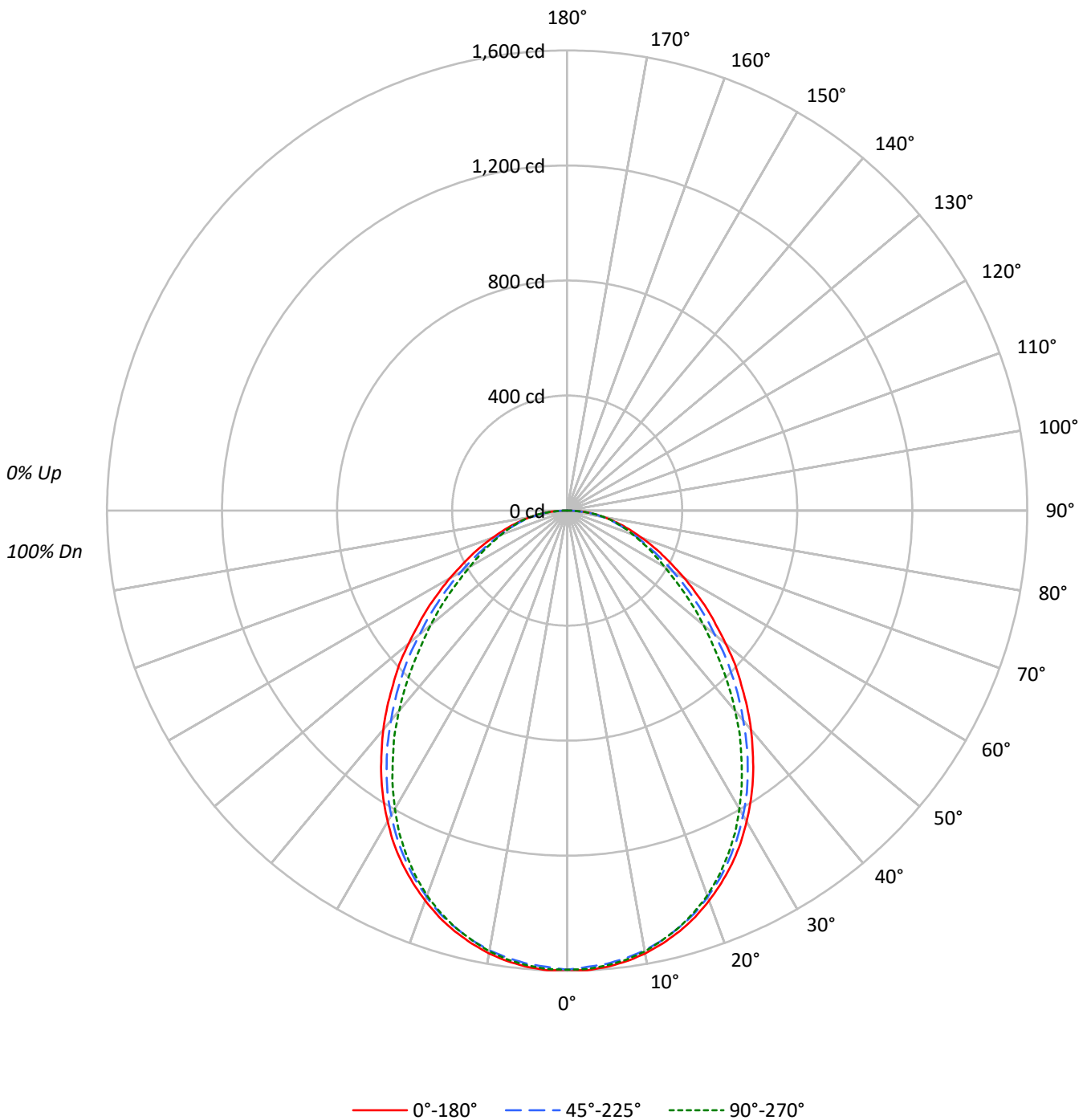
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4296	4296	4296
5°	4301	4273	4288
10°	4273	4244	4253
15°	4217	4182	4182
20°	4133	4093	4079
25°	4024	3966	3925
30°	3878	3801	3722
35°	3704	3596	3472
40°	3494	3347	3191
45°	3258	3089	2880
50°	3010	2801	2592
55°	2777	2539	2331
60°	2533	2295	2105
65°	2329	2083	1989
70°	2161	1948	1910
75°	2063	1892	1927
80°	2021	1906	2008
85°	2075	1874	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	4.2
10°-20°	424.0	11.8
20°-30°	615.0	17.2
30°-40°	682.9	19.1
40°-50°	624.8	17.4
50°-60°	486.7	13.6
60°-70°	332.5	9.3
70°-80°	198.6	5.5
80°-90°	69.1	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°	1189.6	33.2
0°-40°	1872.5	52.2
0°-60°	2984.0	83.3
0°-90°	3584.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3584.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1592	1589	1582	1590	1587	151
15°	1514	1510	1501	1507	1501	426
25°	1355	1350	1336	1332	1322	623
35°	1127	1118	1095	1072	1057	703
45°	856	845	812	774	757	661
55°	592	574	541	509	497	529
65°	366	352	327	312	312	364
75°	198	190	182	185	185	210
85°	67	64	61	66	65	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1599.7	1595.6	1588.2	1596.4	1595.6
5°	1592.3	1589.1	1581.7	1589.9	1587.4
7.5°	1580.9	1577.6	1569.4	1578.4	1575.1
10°	1563.6	1559.5	1553.0	1559.5	1556.3
12.5°	1540.7	1536.6	1530.0	1535.8	1530.0
15°	1513.6	1509.5	1501.3	1507.1	1501.3
17.5°	1481.7	1475.9	1469.4	1470.2	1465.3
20°	1443.1	1437.4	1429.2	1429.2	1424.3
22.5°	1401.3	1395.6	1385.7	1382.4	1375.9
25°	1355.4	1349.6	1335.7	1331.6	1321.8
27.5°	1305.4	1296.3	1282.4	1273.4	1263.5
30°	1248.0	1240.6	1223.4	1210.2	1197.9
32.5°	1189.8	1182.4	1162.7	1143.0	1129.9
35°	1127.4	1117.6	1094.6	1071.7	1056.9
37.5°	1060.2	1052.0	1025.8	997.9	986.4
40°	994.6	983.9	952.8	924.1	908.5
42.5°	925.7	914.2	883.1	850.3	833.1
45°	856.0	844.6	811.8	774.0	756.8
47.5°	791.3	776.5	742.1	704.3	683.8
50°	719.1	706.8	669.1	633.0	619.1
52.5°	651.9	640.4	605.1	569.9	556.7
55°	592.0	574.0	541.2	509.2	496.9
57.5°	528.0	513.3	482.1	451.8	439.5
60°	470.7	459.2	426.4	400.1	391.1
62.5°	414.1	405.1	374.7	355.0	349.3
65°	365.7	351.8	327.2	312.4	312.4
67.5°	319.8	305.8	284.5	278.8	273.9
70°	274.7	264.0	247.6	242.7	242.7
72.5°	234.5	225.5	214.0	212.4	215.6
75°	198.4	190.2	182.0	185.3	185.3
77.5°	162.4	156.6	153.3	155.0	158.3
80°	130.4	126.3	123.0	127.1	129.6
82.5°	100.0	95.9	93.5	99.2	98.4
85°	67.2	64.0	60.7	66.4	64.8
87.5°	33.6	32.0	26.2	29.5	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)