

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: P476218

Luminaire Tested: **14GR-LD5-36-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476218
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.1 lumens
Efficiency: N/A
Efficacy: 128.1 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

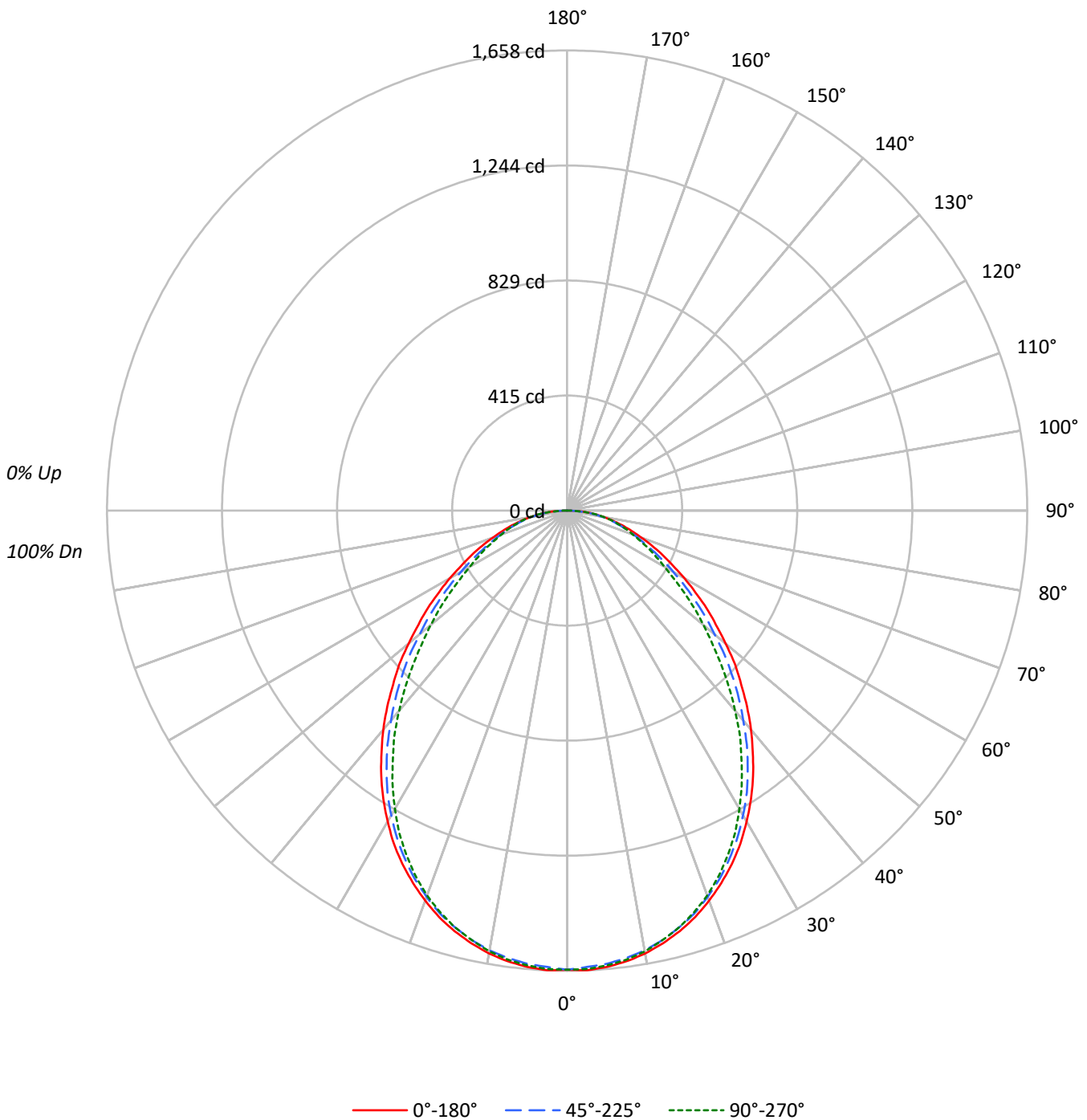
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476218

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476218

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L835-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4452	4452	4452
5°	4457	4428	4444
10°	4428	4397	4407
15°	4370	4334	4334
20°	4283	4241	4227
25°	4170	4110	4067
30°	4018	3939	3857
35°	3838	3726	3598
40°	3621	3468	3307
45°	3376	3201	2985
50°	3120	2902	2686
55°	2878	2631	2416
60°	2625	2378	2181
65°	2413	2159	2061
70°	2239	2019	1979
75°	2138	1961	1996
80°	2094	1976	2081
85°	2152	1942	2072



TEST NUMBER: P476218

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	4.2
10°-20°	439.4	11.8
20°-30°	637.4	17.2
30°-40°	707.7	19.1
40°-50°	647.4	17.4
50°-60°	504.3	13.6
60°-70°	344.6	9.3
70°-80°	205.8	5.5
80°-90°	71.6	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°	1232.8	33.2
0°-40°	1940.4	52.2
0°-60°	3092.2	83.3
0°-90°	3714.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1650	1647	1639	1648	1645	157
15°	1568	1564	1556	1562	1556	442
25°	1404	1399	1384	1380	1370	646
35°	1168	1158	1134	1110	1095	729
45°	887	875	841	802	784	685
55°	614	595	561	528	515	548
65°	379	364	339	324	324	377
75°	206	197	189	192	192	218
85°	70	66	63	69	67	75
90°	0	0	0	0	0	



TEST NUMBER: P476218

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1657.7	1653.5	1645.9	1654.3	1653.5
5°	1650.1	1646.7	1639.1	1647.6	1645.0
7.5°	1638.2	1634.8	1626.3	1635.7	1632.3
10°	1620.4	1616.1	1609.3	1616.1	1612.7
12.5°	1596.6	1592.3	1585.5	1591.5	1585.5
15°	1568.5	1564.3	1555.8	1561.7	1555.8
17.5°	1535.4	1529.4	1522.6	1523.5	1518.4
20°	1495.5	1489.5	1481.0	1481.0	1475.9
22.5°	1452.1	1446.2	1436.0	1432.6	1425.8
25°	1404.5	1398.6	1384.1	1379.9	1369.7
27.5°	1352.7	1343.4	1328.9	1319.6	1309.4
30°	1293.2	1285.6	1267.7	1254.1	1241.4
32.5°	1232.9	1225.3	1204.9	1184.5	1170.9
35°	1168.3	1158.1	1134.3	1110.5	1095.3
37.5°	1098.7	1090.2	1063.0	1034.1	1022.2
40°	1030.7	1019.6	987.3	957.6	941.5
42.5°	959.3	947.4	915.1	881.1	863.3
45°	887.1	875.2	841.2	802.1	784.3
47.5°	820.0	804.7	769.0	729.9	708.6
50°	745.2	732.4	693.3	656.0	641.5
52.5°	675.5	663.6	627.1	590.5	576.9
55°	613.5	594.8	560.8	527.7	514.9
57.5°	547.2	531.9	499.6	468.2	455.4
60°	487.7	475.8	441.8	414.6	405.3
62.5°	429.1	419.7	388.3	367.9	362.0
65°	379.0	364.5	339.0	323.7	323.7
67.5°	331.4	316.9	294.8	288.9	283.8
70°	284.6	273.6	256.6	251.5	251.5
72.5°	243.0	233.7	221.8	220.1	223.5
75°	205.6	197.1	188.6	192.0	192.0
77.5°	168.2	162.3	158.9	160.6	164.0
80°	135.1	130.9	127.5	131.7	134.3
82.5°	103.7	99.4	96.9	102.8	102.0
85°	69.7	66.3	62.9	68.8	67.1
87.5°	34.8	33.1	27.2	30.6	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)