

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: P476349

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476349
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

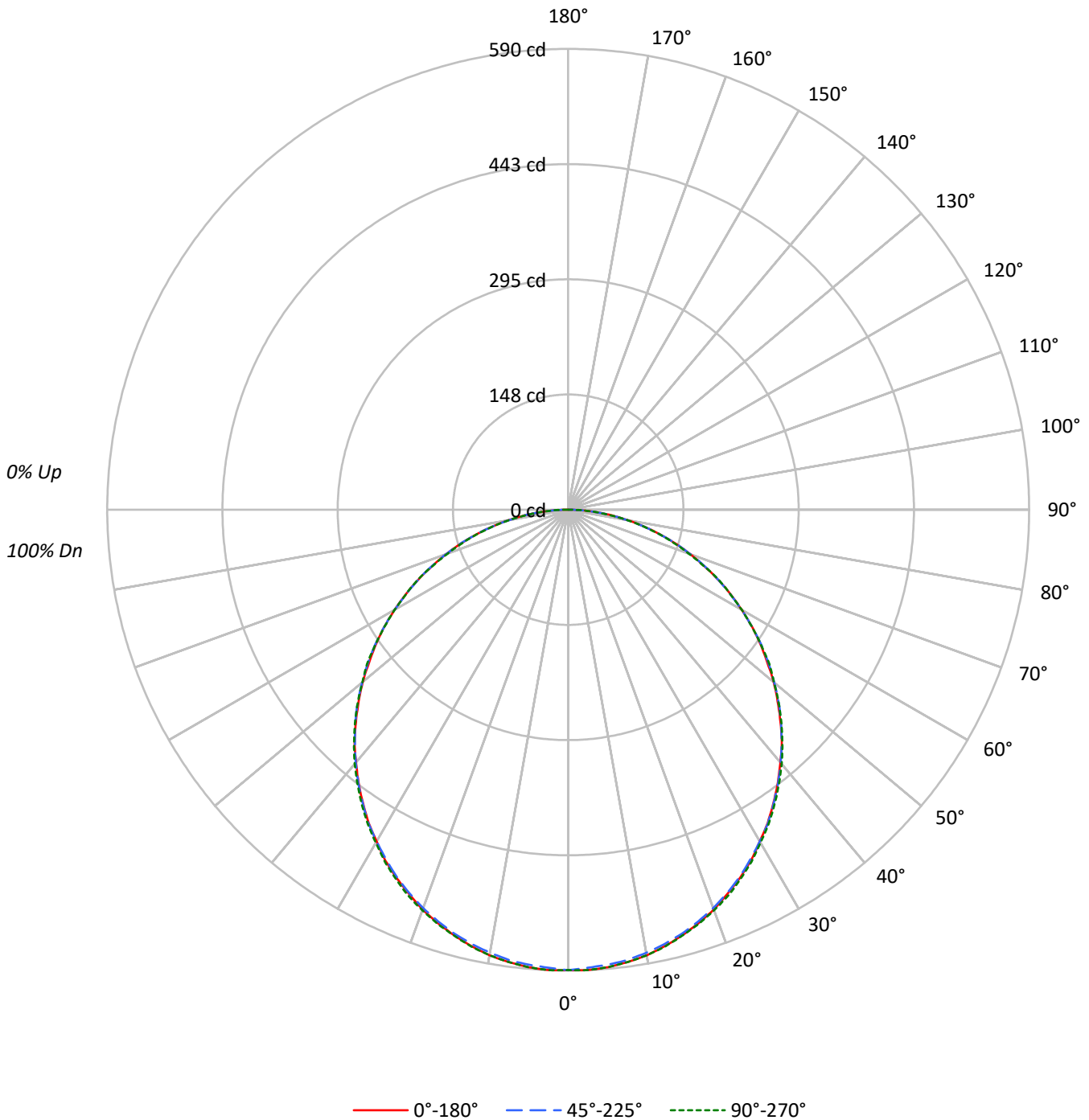
Lumens per Lamp: N/A
Luminaire Lumens: 1685.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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: P476349

CATALOG NUMBER: 14GR-LD5-20-FGW080-UNV-L830-CD1-U

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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1586	1586	1586
5°	1588	1579	1588
10°	1583	1574	1583
15°	1572	1566	1573
20°	1560	1554	1563
25°	1544	1541	1549
30°	1524	1524	1530
35°	1505	1507	1513
40°	1484	1486	1494
45°	1462	1466	1468
50°	1437	1442	1439
55°	1408	1416	1413
60°	1380	1380	1380
65°	1349	1349	1355
70°	1306	1306	1293
75°	1260	1255	1249
80°	1204	1195	1187
85°	1130	1118	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.3
10°-20°	159.1	9.4
20°-30°	239.8	14.2
30°-40°	287.3	17.0
40°-50°	297.1	17.6
50°-60°	269.4	16.0
60°-70°	209.4	12.4
70°-80°	127.9	7.6
80°-90°	40.0	2.4
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°	454.6	27.0
0°-40°	741.9	44.0
0°-60°	1308.4	77.6
0°-90°	1685.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	588	587	585	587	588	56
15°	564	564	562	565	565	159
25°	520	520	519	522	522	240
35°	458	459	459	461	461	287
45°	384	385	385	386	386	296
55°	300	301	302	302	301	268
65°	212	212	212	211	213	209
75°	121	121	121	120	120	128
85°	37	36	36	35	35	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	589.5	589.5	589.5	589.5	589.5
2.5°	590.0	589.5	586.8	589.5	590.0
5°	587.8	587.3	584.7	587.3	587.8
7.5°	584.2	584.2	581.4	584.2	584.2
10°	579.3	578.7	576.0	578.7	579.3
12.5°	572.3	572.3	569.6	572.3	572.8
15°	564.1	564.1	562.1	564.6	564.6
17.5°	555.0	555.5	552.9	556.0	556.0
20°	544.7	544.2	542.7	545.3	545.8
22.5°	532.4	533.0	531.3	534.5	535.0
25°	520.0	520.0	518.9	522.2	521.7
27.5°	506.5	506.5	504.9	507.6	508.1
30°	490.4	490.9	490.4	493.0	492.4
32.5°	475.2	475.8	475.8	476.9	477.4
35°	458.1	458.6	458.6	460.6	460.6
37.5°	440.7	440.7	441.3	442.9	442.9
40°	422.4	423.0	423.0	424.6	425.2
42.5°	404.7	403.6	404.1	405.8	405.8
45°	384.2	384.8	385.3	385.8	385.8
47.5°	363.7	364.8	365.4	365.9	365.4
50°	343.3	344.4	344.4	343.8	343.8
52.5°	321.2	323.9	323.3	323.3	324.4
55°	300.1	301.2	301.8	301.8	301.2
57.5°	279.1	280.2	279.1	279.7	278.6
60°	256.5	257.0	256.5	256.5	256.5
62.5°	234.3	234.9	233.8	233.8	233.8
65°	211.8	211.8	211.8	210.7	212.8
67.5°	188.1	189.2	189.2	189.7	187.5
70°	166.0	166.5	166.0	165.4	164.3
72.5°	143.9	144.4	144.9	142.8	142.2
75°	121.2	121.2	120.7	120.1	120.1
77.5°	99.1	99.1	99.1	98.1	98.1
80°	77.7	78.1	77.1	77.1	76.6
82.5°	56.6	56.6	56.6	56.1	55.0
85°	36.6	35.6	36.2	35.1	35.1
87.5°	16.7	16.7	16.7	15.6	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)