

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: P476376

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476376
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

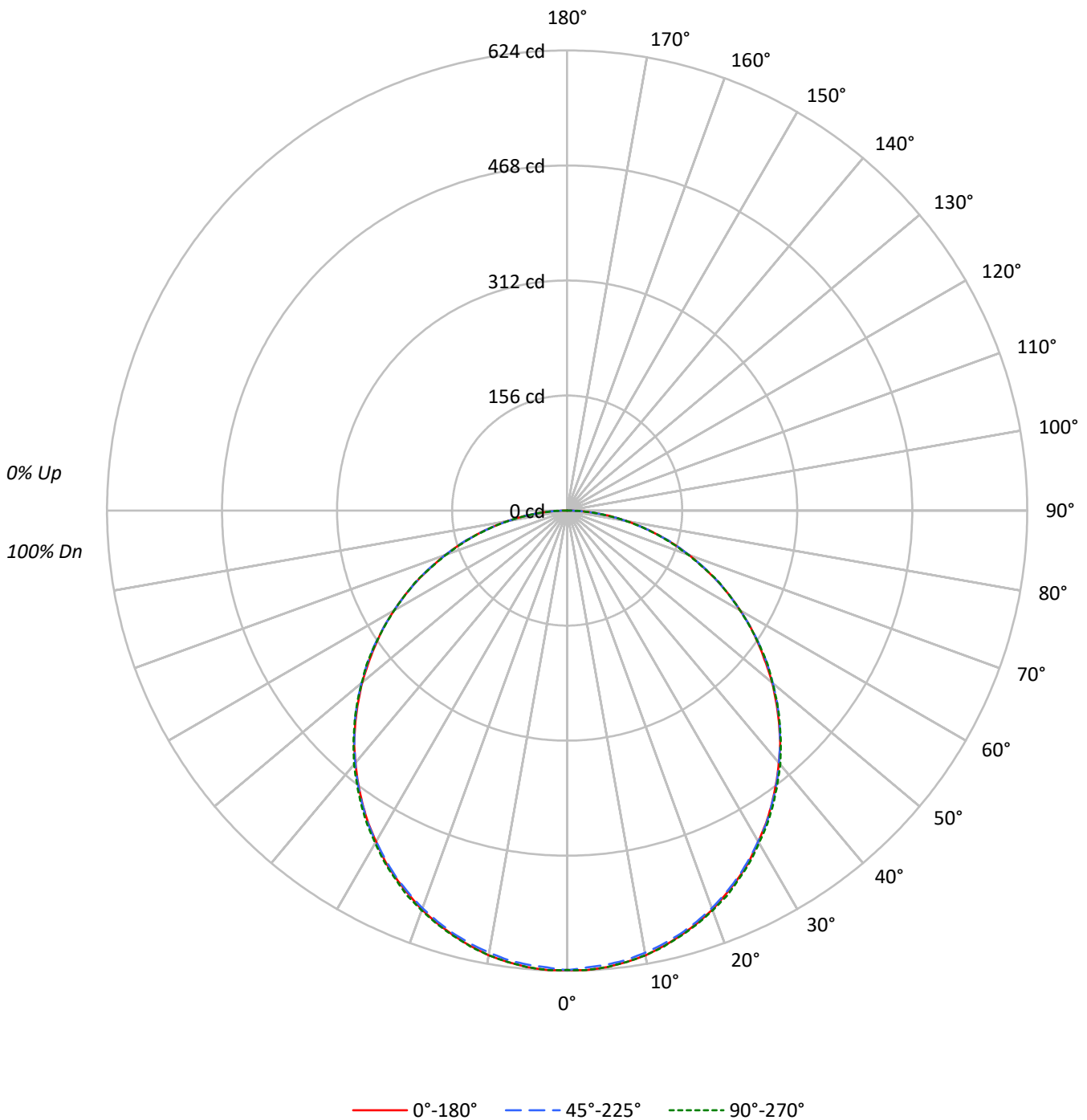
Lumens per Lamp: N/A
Luminaire Lumens: 1781.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	1677	1677	1677
5°	1679	1669	1679
10°	1673	1664	1673
15°	1661	1655	1663
20°	1649	1643	1652
25°	1632	1629	1637
30°	1611	1611	1617
35°	1591	1592	1600
40°	1568	1571	1579
45°	1545	1550	1552
50°	1519	1524	1521
55°	1488	1497	1494
60°	1459	1459	1459
65°	1426	1426	1432
70°	1380	1380	1367
75°	1332	1326	1320
80°	1272	1263	1254
85°	1195	1179	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.3
10°-20°	168.2	9.4
20°-30°	253.4	14.2
30°-40°	303.7	17.0
40°-50°	314.0	17.6
50°-60°	284.8	16.0
60°-70°	221.3	12.4
70°-80°	135.1	7.6
80°-90°	42.3	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°	480.5	27.0
0°-40°	784.2	44.0
0°-60°	1383.0	77.6
0°-90°	1781.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	621	621	618	621	621	59
15°	596	596	594	597	597	168
25°	550	550	548	552	551	253
35°	484	485	485	487	487	303
45°	406	407	407	408	408	313
55°	317	318	319	319	318	284
65°	224	224	224	223	225	221
75°	128	128	128	127	127	135
85°	39	38	38	37	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.1	623.1	623.1	623.1	623.1
2.5°	623.7	623.1	620.2	623.1	623.7
5°	621.4	620.8	618.0	620.8	621.4
7.5°	617.5	617.5	614.6	617.5	617.5
10°	612.3	611.7	608.8	611.7	612.3
12.5°	604.9	604.9	602.0	604.9	605.5
15°	596.3	596.3	594.1	596.8	596.8
17.5°	586.6	587.2	584.4	587.7	587.7
20°	575.8	575.2	573.6	576.3	576.9
22.5°	562.8	563.4	561.6	564.9	565.5
25°	549.7	549.7	548.5	552.0	551.4
27.5°	535.4	535.4	533.6	536.5	537.1
30°	518.3	518.9	518.3	521.1	520.5
32.5°	502.3	502.9	502.9	504.1	504.6
35°	484.2	484.7	484.7	486.9	486.9
37.5°	465.8	465.8	466.4	468.1	468.1
40°	446.5	447.1	447.1	448.8	449.4
42.5°	427.7	426.6	427.2	428.9	428.9
45°	406.1	406.7	407.3	407.8	407.8
47.5°	384.5	385.6	386.2	386.8	386.2
50°	362.8	364.0	364.0	363.4	363.4
52.5°	339.5	342.3	341.8	341.8	342.9
55°	317.2	318.4	319.0	319.0	318.4
57.5°	295.0	296.2	295.0	295.6	294.4
60°	271.1	271.7	271.1	271.1	271.1
62.5°	247.7	248.3	247.1	247.1	247.1
65°	223.9	223.9	223.9	222.7	224.9
67.5°	198.8	200.0	200.0	200.5	198.2
70°	175.4	176.0	175.4	174.9	173.7
72.5°	152.1	152.6	153.2	150.9	150.3
75°	128.1	128.1	127.5	127.0	127.0
77.5°	104.7	104.7	104.7	103.7	103.7
80°	82.1	82.5	81.5	81.5	80.9
82.5°	59.9	59.9	59.9	59.3	58.1
85°	38.7	37.7	38.2	37.1	37.1
87.5°	17.6	17.6	17.6	16.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)