

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: P476365

Luminaire Tested: **14GR-LD5-50-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476365
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-FGW080-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.3 lumens
Efficiency: N/A
Efficacy: 105.0 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

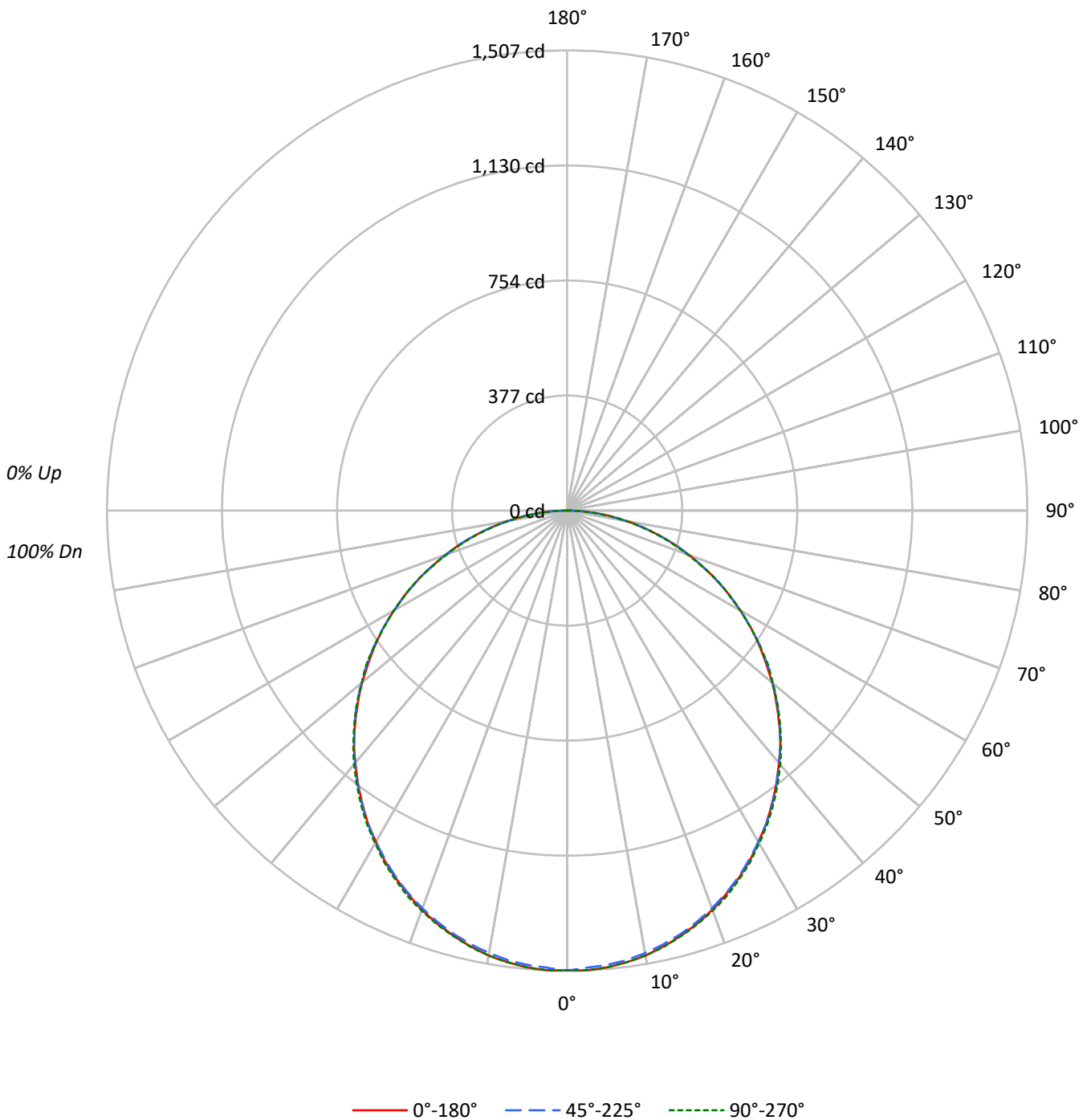
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4052	4052	4052
5°	4056	4034	4056
10°	4043	4020	4043
15°	4014	3999	4018
20°	3984	3969	3992
25°	3944	3935	3956
30°	3892	3892	3908
35°	3843	3848	3865
40°	3790	3795	3815
45°	3734	3745	3750
50°	3670	3682	3676
55°	3597	3616	3610
60°	3525	3525	3525
65°	3445	3445	3461
70°	3335	3335	3302
75°	3219	3204	3190
80°	3075	3053	3031
85°	2884	2853	2766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.3
10°-20°	406.3	9.4
20°-30°	612.4	14.2
30°-40°	733.8	17.0
40°-50°	758.8	17.6
50°-60°	688.1	16.0
60°-70°	534.7	12.4
70°-80°	326.6	7.6
80°-90°	102.3	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°	1161.1	27.0
0°-40°	1894.9	44.0
0°-60°	3341.8	77.6
0°-90°	4305.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1501	1500	1493	1500	1501	143
15°	1441	1441	1436	1442	1442	407
25°	1328	1328	1325	1334	1332	612
35°	1170	1171	1171	1176	1176	732
45°	981	983	984	986	986	757
55°	767	769	771	771	769	686
65°	541	541	541	538	544	534
75°	310	310	308	307	307	327
85°	93	91	92	90	90	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.6	1505.6	1505.6	1505.6	1505.6
2.5°	1507.0	1505.6	1498.6	1505.6	1507.0
5°	1501.4	1500.0	1493.4	1500.0	1501.4
7.5°	1492.0	1492.0	1485.0	1492.0	1492.0
10°	1479.5	1478.1	1471.1	1478.1	1479.5
12.5°	1461.7	1461.7	1454.7	1461.7	1463.1
15°	1440.8	1440.8	1435.5	1442.2	1442.2
17.5°	1417.4	1418.8	1412.2	1420.2	1420.2
20°	1391.3	1389.9	1386.0	1392.7	1394.1
22.5°	1359.9	1361.3	1357.1	1365.1	1366.5
25°	1328.2	1328.2	1325.4	1333.8	1332.4
27.5°	1293.7	1293.7	1289.5	1296.5	1297.8
30°	1252.5	1253.9	1252.5	1259.2	1257.8
32.5°	1213.8	1215.2	1215.2	1218.0	1219.4
35°	1169.9	1171.3	1171.3	1176.5	1176.5
37.5°	1125.6	1125.6	1127.0	1131.2	1131.2
40°	1078.9	1080.3	1080.3	1084.5	1085.9
42.5°	1033.6	1030.8	1032.2	1036.4	1036.4
45°	981.3	982.7	984.1	985.5	985.5
47.5°	929.0	931.8	933.2	934.6	933.2
50°	876.7	879.5	879.5	878.1	878.1
52.5°	820.3	827.2	825.8	825.8	828.6
55°	766.6	769.4	770.8	770.8	769.4
57.5°	712.9	715.7	712.9	714.3	711.5
60°	655.0	656.4	655.0	655.0	655.0
62.5°	598.6	599.9	597.2	597.2	597.2
65°	541.0	541.0	541.0	538.2	543.5
67.5°	480.4	483.2	483.2	484.6	479.0
70°	423.9	425.3	423.9	422.5	419.7
72.5°	367.4	368.8	370.2	364.6	363.2
75°	309.6	309.6	308.2	306.8	306.8
77.5°	253.1	253.1	253.1	250.6	250.6
80°	198.4	199.4	197.0	197.0	195.6
82.5°	144.7	144.7	144.7	143.3	140.5
85°	93.4	91.0	92.4	89.6	89.6
87.5°	42.5	42.5	42.5	39.7	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)