

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: P291673

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1392.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

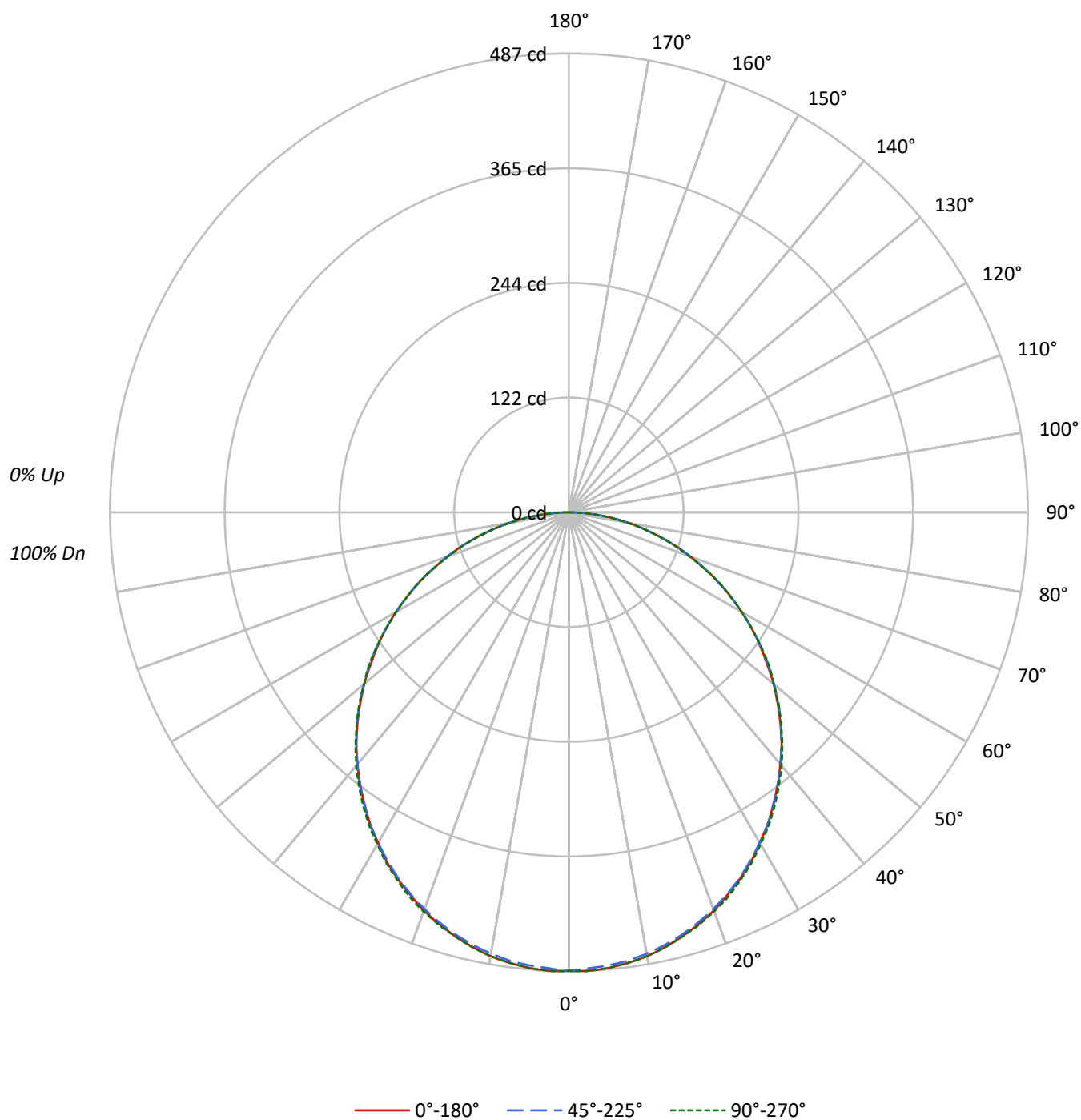
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1310	1310	1310
5°	1311	1304	1311
10°	1307	1300	1307
15°	1298	1293	1299
20°	1288	1283	1291
25°	1275	1272	1279
30°	1258	1258	1264
35°	1242	1244	1250
40°	1226	1227	1233
45°	1208	1211	1212
50°	1187	1190	1189
55°	1163	1169	1167
60°	1140	1140	1140
65°	1114	1114	1119
70°	1079	1079	1068
75°	1041	1037	1031
80°	993	986	979
85°	936	920	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.3
10°-20°	131.4	9.4
20°-30°	198.0	14.2
30°-40°	237.3	17.0
40°-50°	245.3	17.6
50°-60°	222.5	16.0
60°-70°	172.9	12.4
70°-80°	105.6	7.6
80°-90°	33.0	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°	375.4	27.0
0°-40°	612.7	44.0
0°-60°	1080.5	77.6
0°-90°	1392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	486	485	483	485	486	46
15°	466	466	464	466	466	131
25°	429	429	428	431	431	198
35°	378	379	379	380	380	237
45°	317	318	318	319	319	245
55°	248	249	249	249	249	222
65°	175	175	175	174	176	173
75°	100	100	100	99	99	106
85°	30	29	30	29	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	486.8	486.8	486.8	486.8	486.8
2.5°	487.3	486.8	484.6	486.8	487.3
5°	485.5	485.0	482.8	485.0	485.5
7.5°	482.4	482.4	480.1	482.4	482.4
10°	478.4	477.9	475.7	477.9	478.4
12.5°	472.6	472.6	470.3	472.6	473.0
15°	465.9	465.9	464.1	466.3	466.3
17.5°	458.3	458.8	456.6	459.2	459.2
20°	449.9	449.4	448.1	450.3	450.8
22.5°	439.6	440.1	438.8	441.4	441.9
25°	429.4	429.4	428.5	431.2	430.7
27.5°	418.3	418.3	416.9	419.2	419.6
30°	404.9	405.4	404.9	407.2	406.7
32.5°	392.5	392.9	392.9	393.8	394.3
35°	378.2	378.7	378.7	380.5	380.5
37.5°	364.0	364.0	364.4	365.8	365.8
40°	348.9	349.3	349.3	350.6	351.1
42.5°	334.2	333.3	333.7	335.1	335.1
45°	317.3	317.7	318.2	318.6	318.6
47.5°	300.4	301.3	301.7	302.1	301.7
50°	283.5	284.3	284.3	283.9	283.9
52.5°	265.2	267.4	267.0	267.0	267.9
55°	247.9	248.7	249.2	249.2	248.7
57.5°	230.5	231.4	230.5	230.9	230.1
60°	211.8	212.3	211.8	211.8	211.8
62.5°	193.6	194.0	193.1	193.1	193.1
65°	174.9	174.9	174.9	174.0	175.8
67.5°	155.3	156.2	156.2	156.6	154.9
70°	137.1	137.5	137.1	136.6	135.7
72.5°	118.8	119.3	119.7	117.9	117.5
75°	100.1	100.1	99.7	99.2	99.2
77.5°	81.9	81.9	81.9	81.0	81.0
80°	64.1	64.5	63.6	63.6	63.2
82.5°	46.7	46.7	46.7	46.3	45.4
85°	30.3	29.4	29.8	28.9	28.9
87.5°	13.8	13.8	13.8	12.9	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)