

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: P291671

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291671
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1284.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

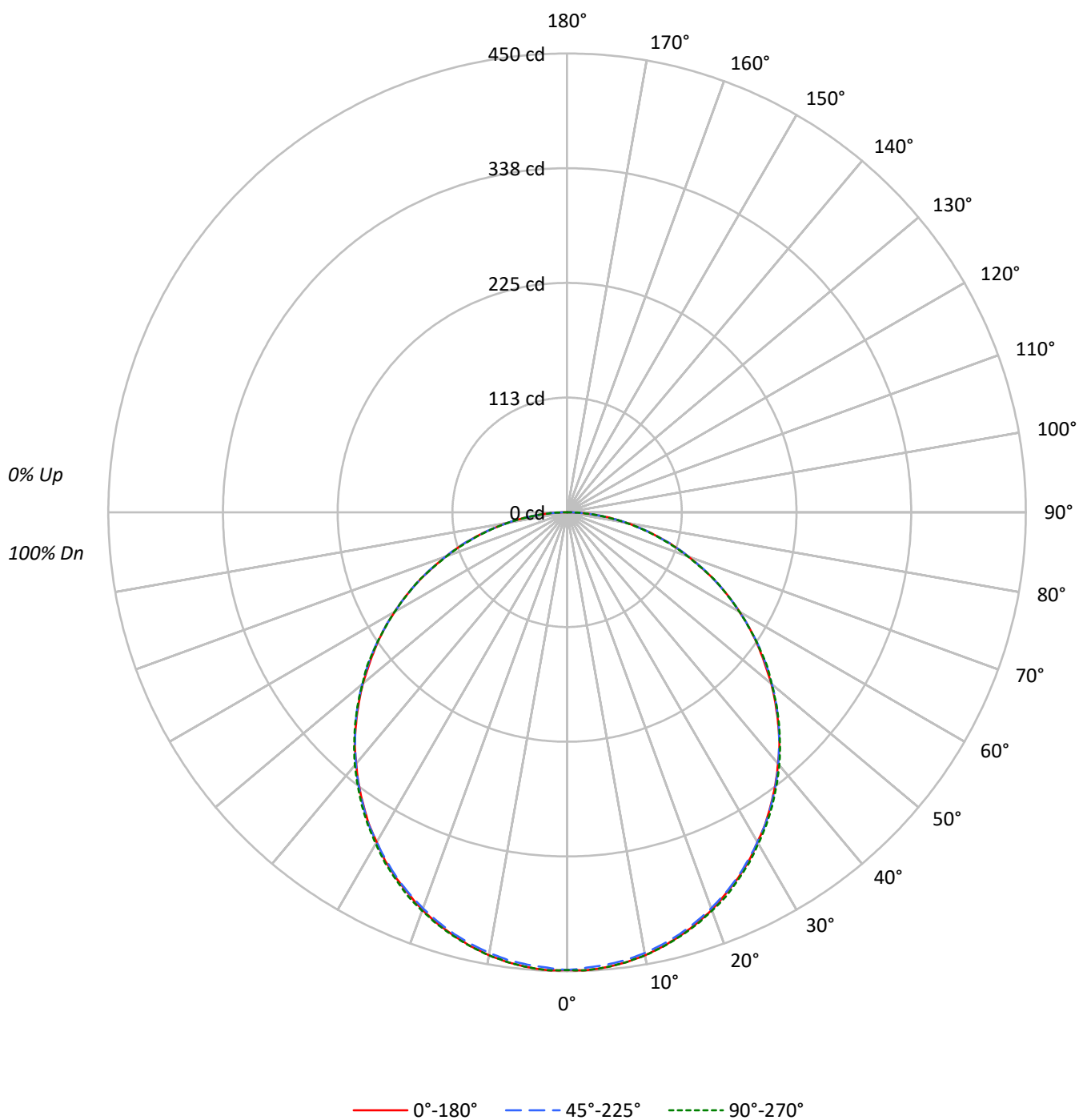
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1208	1208	1208
5°	1210	1203	1210
10°	1206	1199	1206
15°	1197	1193	1198
20°	1188	1184	1191
25°	1176	1174	1180
30°	1161	1161	1166
35°	1146	1147	1153
40°	1130	1132	1138
45°	1114	1117	1118
50°	1095	1098	1096
55°	1072	1079	1076
60°	1052	1052	1052
65°	1027	1027	1032
70°	995	995	985
75°	961	955	951
80°	916	910	903
85°	861	849	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.3
10°-20°	121.2	9.4
20°-30°	182.6	14.2
30°-40°	218.9	17.0
40°-50°	226.3	17.6
50°-60°	205.2	16.0
60°-70°	159.5	12.4
70°-80°	97.4	7.6
80°-90°	30.5	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°	346.3	27.0
0°-40°	565.1	44.0
0°-60°	996.6	77.6
0°-90°	1284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	447	445	447	448	43
15°	430	430	428	430	430	121
25°	396	396	395	398	397	182
35°	349	349	349	351	351	218
45°	293	293	294	294	294	226
55°	229	229	230	230	229	204
65°	161	161	161	160	162	159
75°	92	92	92	92	92	98
85°	28	27	28	27	27	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.0	449.0	449.0	449.0	449.0
2.5°	449.5	449.0	447.0	449.0	449.5
5°	447.8	447.4	445.3	447.4	447.8
7.5°	444.9	444.9	442.9	444.9	444.9
10°	441.2	440.8	438.8	440.8	441.2
12.5°	435.9	435.9	433.9	435.9	436.3
15°	429.7	429.7	428.1	430.2	430.2
17.5°	422.8	423.2	421.1	423.6	423.6
20°	415.0	414.6	413.3	415.4	415.8
22.5°	405.5	405.9	404.7	407.2	407.6
25°	396.1	396.1	395.3	397.7	397.3
27.5°	385.8	385.8	384.6	386.7	387.1
30°	373.5	373.9	373.5	375.6	375.2
32.5°	362.0	362.4	362.4	363.3	363.7
35°	348.9	349.3	349.3	350.9	350.9
37.5°	335.8	335.8	336.2	337.4	337.4
40°	321.8	322.2	322.2	323.4	323.9
42.5°	308.3	307.4	307.8	309.1	309.1
45°	292.7	293.1	293.5	293.9	293.9
47.5°	277.1	277.9	278.3	278.7	278.3
50°	261.5	262.3	262.3	261.9	261.9
52.5°	244.6	246.7	246.3	246.3	247.1
55°	228.6	229.4	229.9	229.9	229.4
57.5°	212.6	213.4	212.6	213.0	212.2
60°	195.4	195.8	195.4	195.4	195.4
62.5°	178.5	179.0	178.1	178.1	178.1
65°	161.3	161.3	161.3	160.5	162.1
67.5°	143.2	144.1	144.1	144.5	142.8
70°	126.4	126.8	126.4	126.0	125.2
72.5°	109.6	110.0	110.4	108.8	108.4
75°	92.4	92.4	91.9	91.5	91.5
77.5°	75.5	75.5	75.5	74.7	74.7
80°	59.1	59.5	58.7	58.7	58.3
82.5°	43.1	43.1	43.1	42.7	41.9
85°	27.9	27.1	27.5	26.7	26.7
87.5°	12.7	12.7	12.7	11.9	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)