

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: P291678

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291678
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1496.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

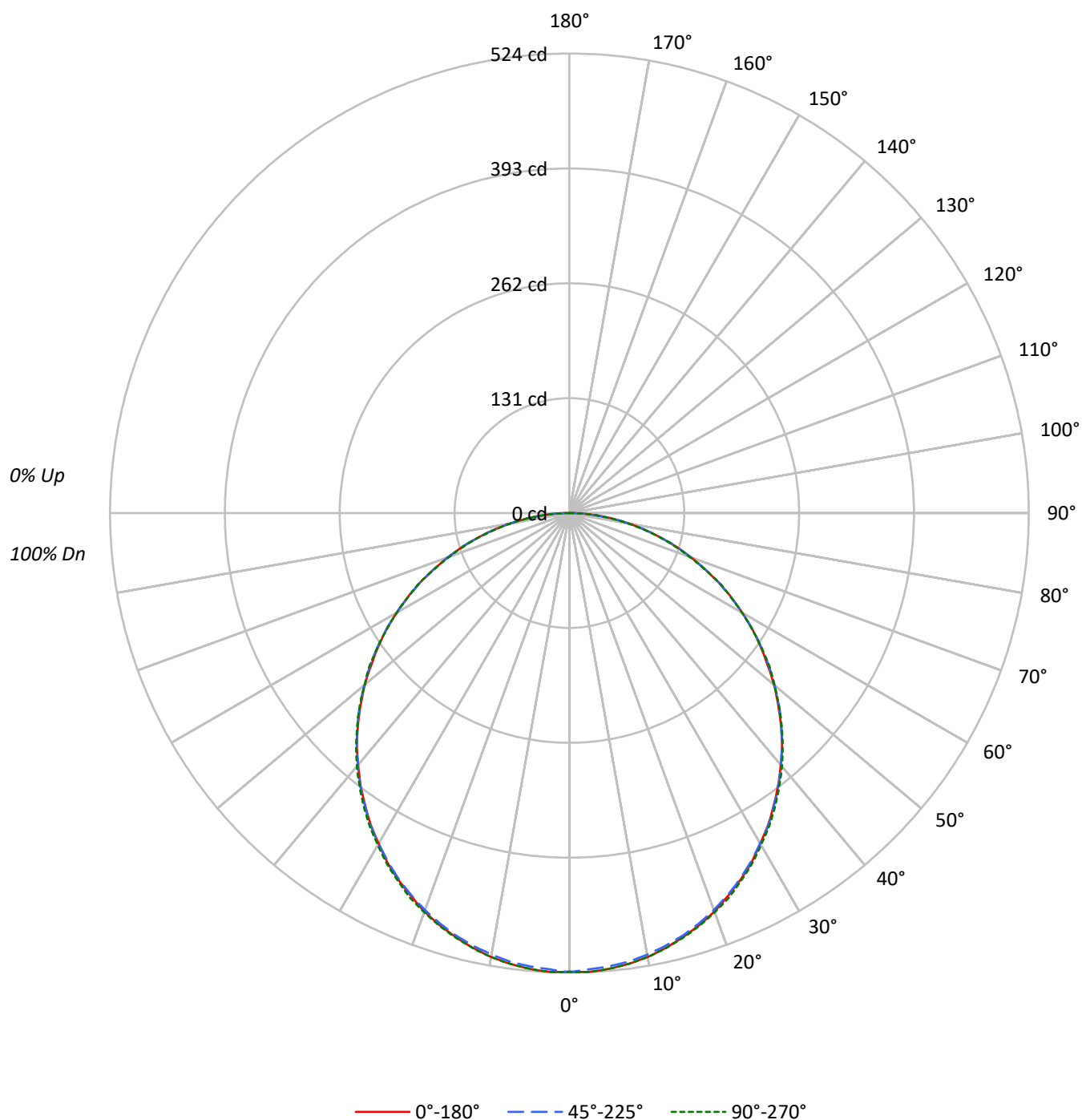
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1408	1408	1408
5°	1409	1402	1409
10°	1405	1397	1405
15°	1395	1390	1396
20°	1385	1379	1387
25°	1370	1367	1374
30°	1352	1352	1358
35°	1335	1337	1343
40°	1317	1319	1325
45°	1298	1301	1303
50°	1275	1279	1277
55°	1250	1256	1254
60°	1225	1225	1225
65°	1196	1196	1203
70°	1159	1159	1148
75°	1119	1114	1108
80°	1068	1060	1052
85°	1003	988	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.3
10°-20°	141.2	9.4
20°-30°	212.8	14.2
30°-40°	255.0	17.0
40°-50°	263.7	17.6
50°-60°	239.1	16.0
60°-70°	185.8	12.4
70°-80°	113.5	7.6
80°-90°	35.5	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°	403.4	27.0
0°-40°	658.4	44.0
0°-60°	1161.2	77.6
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	522	521	519	521	522	50
15°	501	501	499	501	501	141
25°	462	462	460	463	463	213
35°	406	407	407	409	409	254
45°	341	342	342	342	342	263
55°	266	267	268	268	267	238
65°	188	188	188	187	189	186
75°	108	108	107	107	107	114
85°	32	32	32	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.2	523.2	523.2	523.2	523.2
2.5°	523.7	523.2	520.8	523.2	523.7
5°	521.7	521.3	518.9	521.3	521.7
7.5°	518.4	518.4	516.0	518.4	518.4
10°	514.1	513.6	511.2	513.6	514.1
12.5°	507.9	507.9	505.5	507.9	508.4
15°	500.7	500.7	498.8	501.2	501.2
17.5°	492.6	493.1	490.7	493.5	493.5
20°	483.5	483.0	481.6	484.0	484.4
22.5°	472.5	473.0	471.5	474.4	474.9
25°	461.5	461.5	460.5	463.4	462.9
27.5°	449.5	449.5	448.1	450.5	451.0
30°	435.2	435.7	435.2	437.6	437.1
32.5°	421.8	422.3	422.3	423.2	423.7
35°	406.5	407.0	407.0	408.9	408.9
37.5°	391.2	391.2	391.7	393.1	393.1
40°	374.9	375.4	375.4	376.8	377.3
42.5°	359.1	358.2	358.7	360.1	360.1
45°	341.0	341.5	341.9	342.4	342.4
47.5°	322.8	323.8	324.2	324.7	324.2
50°	304.6	305.6	305.6	305.1	305.1
52.5°	285.0	287.4	286.9	286.9	287.9
55°	266.4	267.3	267.8	267.8	267.3
57.5°	247.7	248.7	247.7	248.2	247.2
60°	227.6	228.1	227.6	227.6	227.6
62.5°	208.0	208.5	207.6	207.6	207.6
65°	187.9	187.9	187.9	187.0	188.9
67.5°	166.9	167.9	167.9	168.3	166.4
70°	147.3	147.8	147.3	146.8	145.9
72.5°	127.7	128.2	128.6	126.7	126.3
75°	107.6	107.6	107.1	106.6	106.6
77.5°	88.0	88.0	88.0	87.0	87.0
80°	68.9	69.3	68.4	68.4	67.9
82.5°	50.2	50.2	50.2	49.7	48.8
85°	32.5	31.6	32.0	31.1	31.1
87.5°	14.8	14.8	14.8	13.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)