

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: P291574

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291574
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-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1539.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

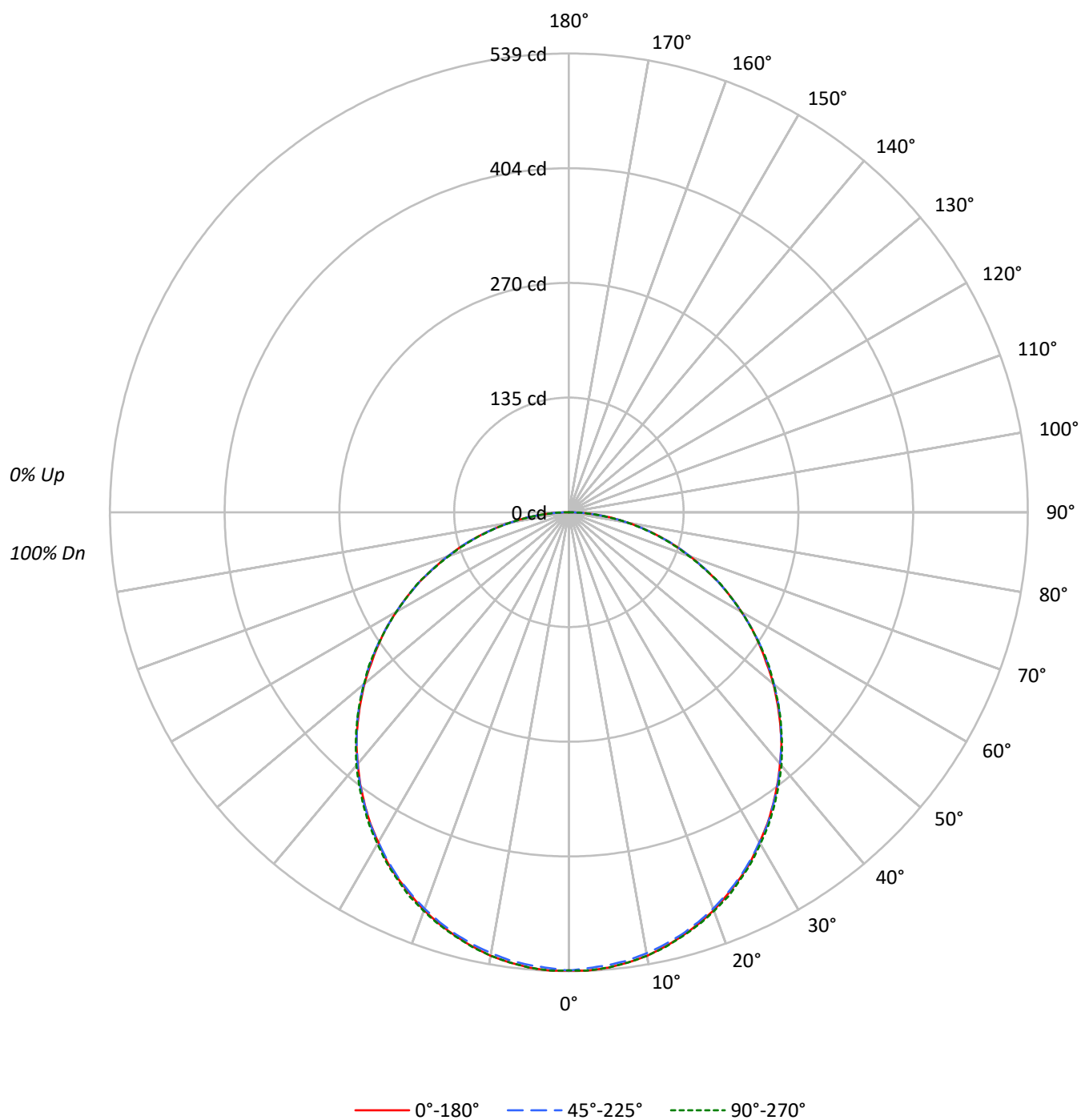
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1448	1448	1448
5°	1450	1442	1450
10°	1445	1437	1445
15°	1435	1429	1436
20°	1424	1419	1427
25°	1410	1407	1414
30°	1391	1391	1397
35°	1374	1375	1382
40°	1355	1357	1364
45°	1335	1339	1341
50°	1312	1316	1314
55°	1285	1293	1290
60°	1260	1260	1260
65°	1231	1231	1237
70°	1192	1192	1181
75°	1151	1146	1141
80°	1097	1091	1083
85°	1034	1019	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	3.3
10°-20°	145.3	9.4
20°-30°	218.9	14.2
30°-40°	262.3	17.0
40°-50°	271.3	17.6
50°-60°	246.0	16.0
60°-70°	191.1	12.4
70°-80°	116.7	7.6
80°-90°	36.6	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°	415.0	27.0
0°-40°	677.4	44.0
0°-60°	1194.6	77.6
0°-90°	1539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	537	536	534	536	537	51
15°	515	515	513	516	516	145
25°	475	475	474	477	476	219
35°	418	419	419	421	421	262
45°	351	351	352	352	352	271
55°	274	275	276	276	275	245
65°	193	193	193	192	194	191
75°	111	111	110	110	110	117
85°	34	32	33	32	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.2	538.2	538.2	538.2	538.2
2.5°	538.7	538.2	535.8	538.2	538.7
5°	536.7	536.3	533.8	536.3	536.7
7.5°	533.3	533.3	530.8	533.3	533.3
10°	528.9	528.4	525.9	528.4	528.9
12.5°	522.5	522.5	520.0	522.5	523.0
15°	515.1	515.1	513.1	515.6	515.6
17.5°	506.7	507.2	504.8	507.7	507.7
20°	497.4	496.9	495.4	497.9	498.4
22.5°	486.1	486.6	485.1	488.0	488.5
25°	474.8	474.8	473.8	476.7	476.2
27.5°	462.5	462.5	461.0	463.4	463.9
30°	447.7	448.2	447.7	450.2	449.7
32.5°	433.9	434.4	434.4	435.4	435.9
35°	418.2	418.7	418.7	420.6	420.6
37.5°	402.4	402.4	402.9	404.4	404.4
40°	385.7	386.2	386.2	387.7	388.2
42.5°	369.5	368.5	369.0	370.5	370.5
45°	350.8	351.3	351.8	352.3	352.3
47.5°	332.1	333.1	333.6	334.1	333.6
50°	313.4	314.4	314.4	313.9	313.9
52.5°	293.2	295.7	295.2	295.2	296.2
55°	274.0	275.0	275.5	275.5	275.0
57.5°	254.8	255.8	254.8	255.3	254.4
60°	234.2	234.7	234.2	234.2	234.2
62.5°	214.0	214.5	213.5	213.5	213.5
65°	193.3	193.3	193.3	192.4	194.3
67.5°	171.7	172.7	172.7	173.2	171.2
70°	151.5	152.0	151.5	151.0	150.1
72.5°	131.4	131.8	132.3	130.4	129.9
75°	110.7	110.7	110.2	109.7	109.7
77.5°	90.5	90.5	90.5	89.5	89.5
80°	70.8	71.3	70.4	70.4	69.9
82.5°	51.7	51.7	51.7	51.2	50.2
85°	33.5	32.5	33.0	32.0	32.0
87.5°	15.3	15.3	15.3	14.3	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)