

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: P291697

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291697
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-LD5-32-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1960.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

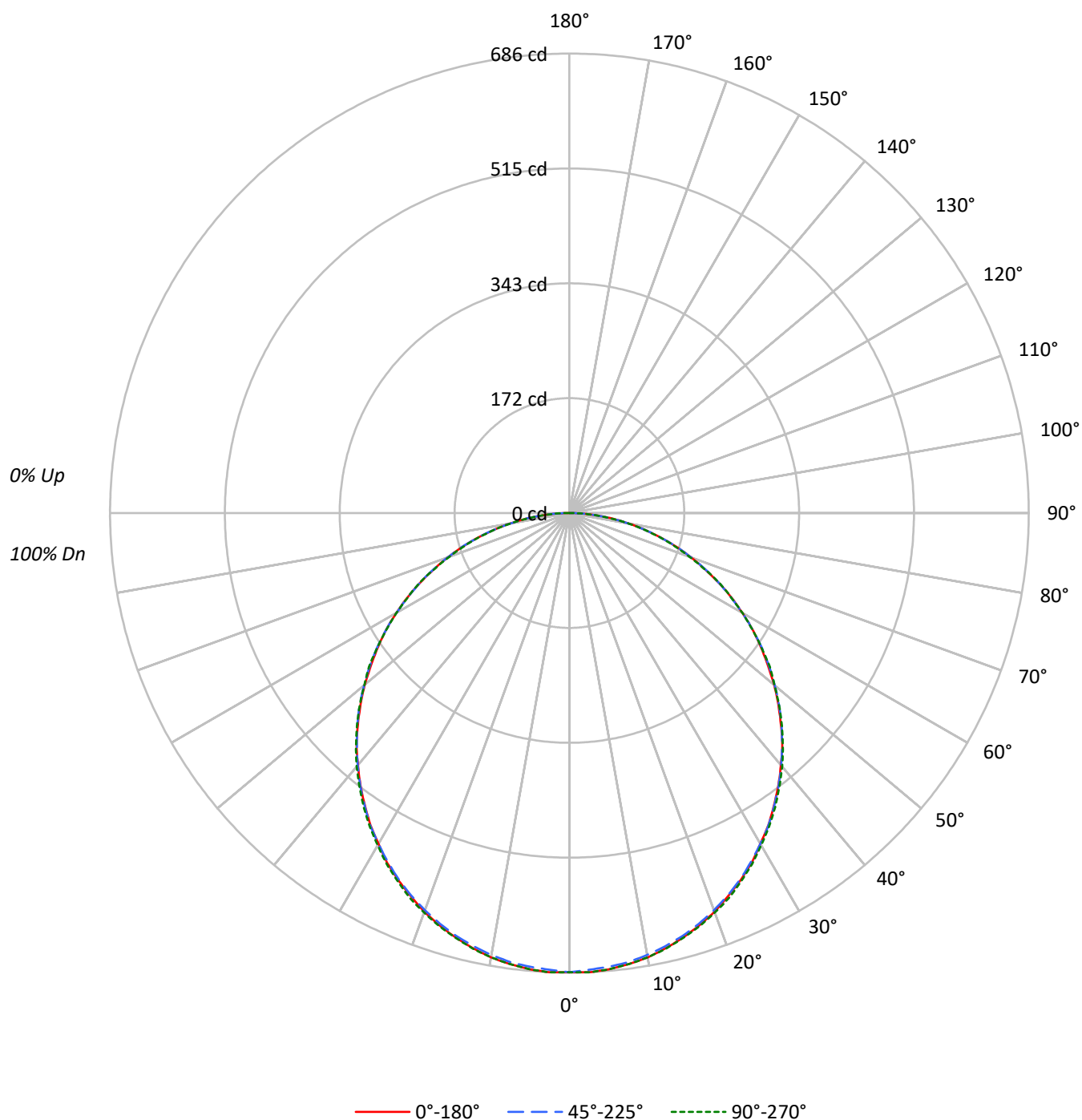
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1845	1845	1845
5°	1847	1836	1847
10°	1840	1830	1840
15°	1828	1821	1829
20°	1814	1807	1818
25°	1795	1792	1801
30°	1772	1772	1780
35°	1750	1752	1760
40°	1725	1728	1737
45°	1700	1705	1707
50°	1671	1676	1673
55°	1637	1646	1643
60°	1605	1605	1605
65°	1568	1568	1576
70°	1519	1519	1504
75°	1466	1459	1452
80°	1398	1389	1379
85°	1315	1297	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.3
10°-20°	185.0	9.4
20°-30°	278.8	14.2
30°-40°	334.1	17.0
40°-50°	345.4	17.6
50°-60°	313.2	16.0
60°-70°	243.4	12.4
70°-80°	148.7	7.6
80°-90°	46.5	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°	528.6	27.0
0°-40°	862.6	44.0
0°-60°	1521.3	77.6
0°-90°	1960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	684	683	680	683	684	65
15°	656	656	654	657	657	185
25°	605	605	603	607	606	279
35°	533	533	533	536	536	333
45°	447	447	448	449	449	345
55°	349	350	351	351	350	312
65°	246	246	246	245	248	243
75°	141	141	140	140	140	149
85°	43	41	42	41	41	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.5	685.5	685.5	685.5	685.5
2.5°	686.1	685.5	682.3	685.5	686.1
5°	683.6	682.9	679.8	682.9	683.6
7.5°	679.2	679.2	676.1	679.2	679.2
10°	673.5	672.9	669.8	672.9	673.5
12.5°	665.4	665.4	662.3	665.4	666.0
15°	656.0	656.0	653.5	656.6	656.6
17.5°	645.4	646.0	642.8	646.6	646.6
20°	633.4	632.8	630.9	634.1	634.7
22.5°	619.0	619.7	617.8	621.5	622.2
25°	604.6	604.6	603.4	607.1	606.5
27.5°	589.0	589.0	587.1	590.2	590.8
30°	570.2	570.8	570.2	573.3	572.7
32.5°	552.6	553.2	553.2	554.5	555.1
35°	532.6	533.2	533.2	535.7	535.7
37.5°	512.5	512.5	513.1	515.0	515.0
40°	491.2	491.8	491.8	493.7	494.4
42.5°	470.5	469.3	469.9	471.8	471.8
45°	446.7	447.4	448.0	448.6	448.6
47.5°	422.9	424.2	424.8	425.4	424.8
50°	399.1	400.4	400.4	399.7	399.7
52.5°	373.4	376.6	375.9	375.9	377.2
55°	349.0	350.2	350.9	350.9	350.2
57.5°	324.6	325.8	324.6	325.2	323.9
60°	298.2	298.9	298.2	298.2	298.2
62.5°	272.6	273.2	271.9	271.9	271.9
65°	246.2	246.2	246.2	245.0	247.5
67.5°	218.7	219.9	219.9	220.5	218.0
70°	193.0	193.6	193.0	192.4	191.1
72.5°	167.3	167.9	168.5	166.0	165.4
75°	141.0	141.0	140.3	139.7	139.7
77.5°	115.3	115.3	115.3	114.0	114.0
80°	90.2	90.9	89.6	89.6	89.0
82.5°	65.8	65.8	65.8	65.2	63.9
85°	42.6	41.4	42.0	40.7	40.7
87.5°	19.4	19.4	19.4	18.2	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)