

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: P291691

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291691
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-LD5-28-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: 1946.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

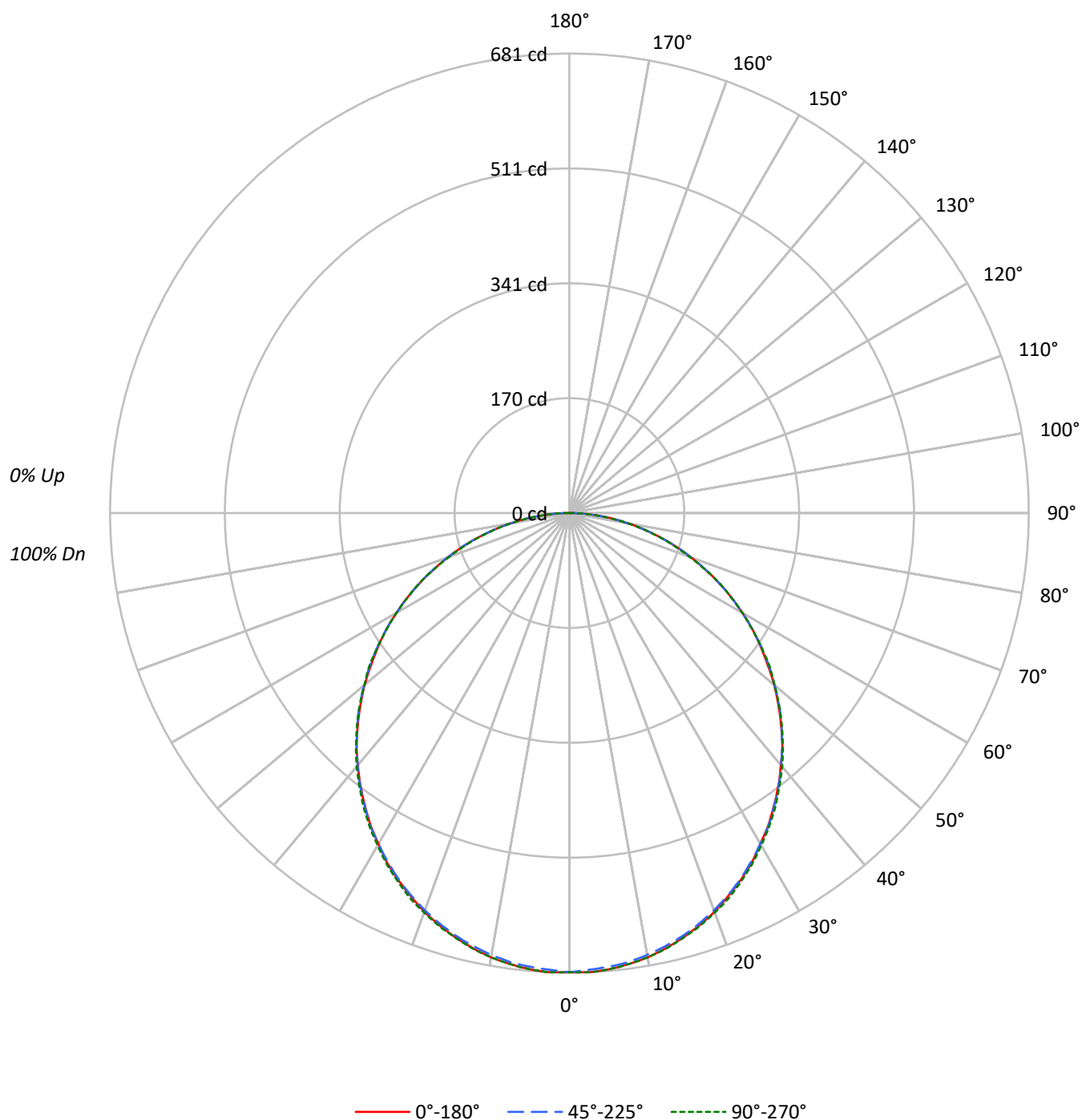
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1831	1831	1831
5°	1833	1823	1833
10°	1827	1817	1827
15°	1814	1807	1816
20°	1801	1794	1805
25°	1782	1779	1788
30°	1759	1759	1767
35°	1737	1739	1747
40°	1713	1715	1724
45°	1688	1693	1695
50°	1659	1664	1662
55°	1626	1635	1631
60°	1594	1594	1594
65°	1557	1557	1564
70°	1507	1507	1493
75°	1456	1448	1442
80°	1389	1379	1368
85°	1306	1288	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.3
10°-20°	183.7	9.4
20°-30°	276.8	14.2
30°-40°	331.7	17.0
40°-50°	343.0	17.6
50°-60°	311.0	16.0
60°-70°	241.7	12.4
70°-80°	147.6	7.6
80°-90°	46.2	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°	524.8	27.0
0°-40°	856.5	44.0
0°-60°	1510.5	77.6
0°-90°	1946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	679	678	675	678	679	64
15°	651	651	649	652	652	184
25°	600	600	599	603	602	277
35°	529	529	529	532	532	331
45°	444	444	445	445	445	342
55°	346	348	348	348	348	310
65°	244	244	244	243	246	242
75°	140	140	139	139	139	148
85°	42	41	42	40	40	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.6	680.6	680.6	680.6	680.6
2.5°	681.2	680.6	677.4	680.6	681.2
5°	678.7	678.1	675.0	678.1	678.7
7.5°	674.3	674.3	671.2	674.3	674.3
10°	668.7	668.1	665.0	668.1	668.7
12.5°	660.6	660.6	657.5	660.6	661.3
15°	651.3	651.3	648.8	651.9	651.9
17.5°	640.7	641.4	638.3	642.0	642.0
20°	628.9	628.3	626.4	629.5	630.2
22.5°	614.6	615.2	613.4	617.1	617.7
25°	600.3	600.3	599.1	602.8	602.2
27.5°	584.8	584.8	582.9	586.0	586.6
30°	566.1	566.7	566.1	569.2	568.6
32.5°	548.7	549.3	549.3	550.5	551.2
35°	528.8	529.4	529.4	531.9	531.9
37.5°	508.9	508.9	509.5	511.3	511.3
40°	487.7	488.3	488.3	490.2	490.8
42.5°	467.2	465.9	466.6	468.4	468.4
45°	443.5	444.2	444.8	445.4	445.4
47.5°	419.9	421.1	421.8	422.4	421.8
50°	396.3	397.5	397.5	396.9	396.9
52.5°	370.8	373.9	373.2	373.2	374.5
55°	346.5	347.7	348.4	348.4	347.7
57.5°	322.2	323.5	322.2	322.9	321.6
60°	296.1	296.7	296.1	296.1	296.1
62.5°	270.6	271.2	270.0	270.0	270.0
65°	244.5	244.5	244.5	243.2	245.7
67.5°	217.1	218.3	218.3	219.0	216.5
70°	191.6	192.2	191.6	191.0	189.7
72.5°	166.1	166.7	167.3	164.9	164.2
75°	140.0	140.0	139.3	138.7	138.7
77.5°	114.5	114.5	114.5	113.2	113.2
80°	89.6	90.2	89.0	89.0	88.3
82.5°	65.3	65.3	65.3	64.7	63.5
85°	42.3	41.1	41.7	40.4	40.4
87.5°	19.3	19.3	19.3	18.0	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)