

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: P291544

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291544
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-LD5-24-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

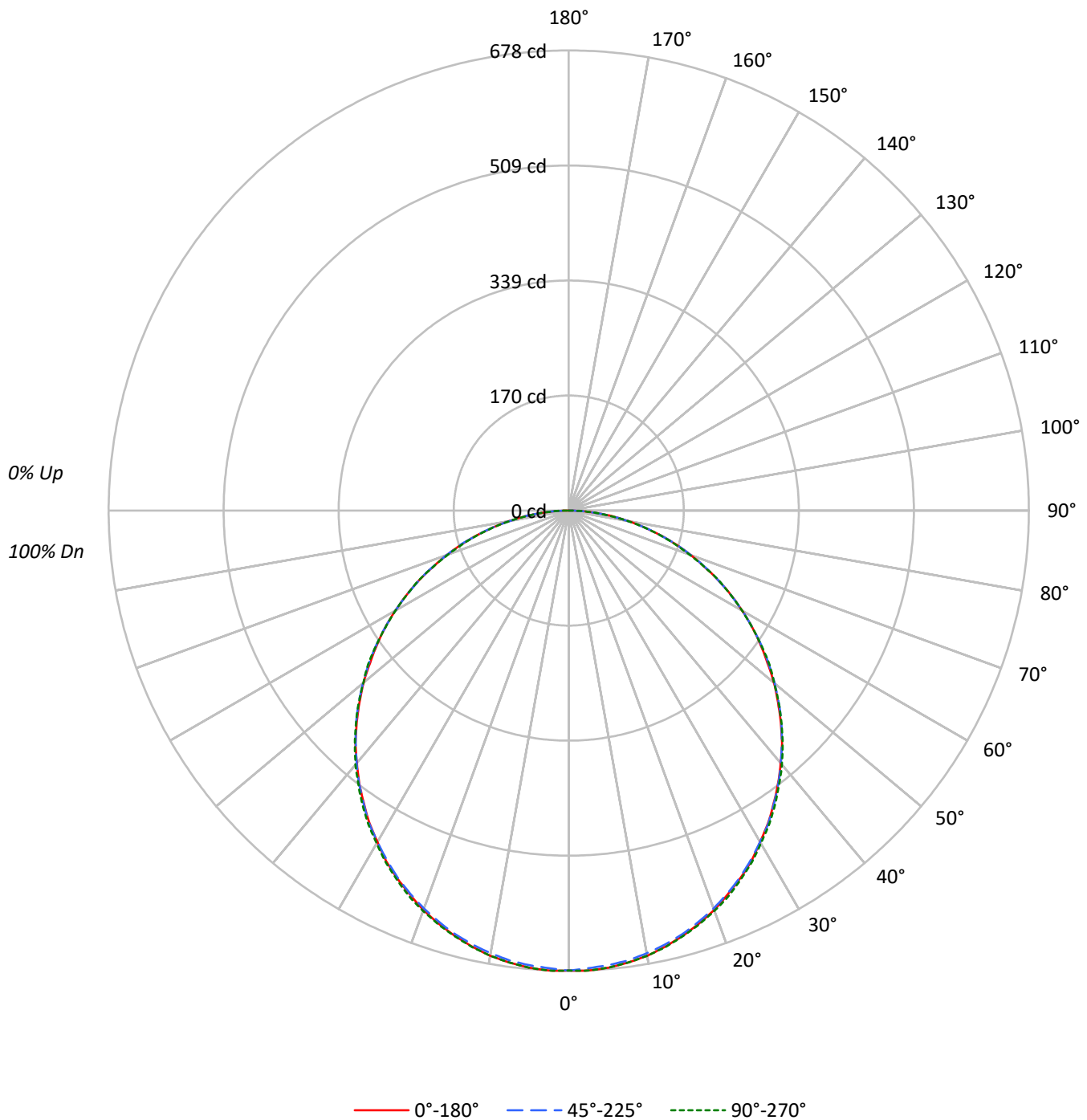
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1824	1824	1824
5°	1826	1816	1826
10°	1820	1810	1820
15°	1807	1800	1809
20°	1794	1787	1797
25°	1775	1771	1781
30°	1752	1752	1759
35°	1730	1732	1740
40°	1706	1708	1717
45°	1681	1686	1688
50°	1652	1657	1655
55°	1619	1628	1625
60°	1587	1587	1587
65°	1550	1550	1558
70°	1501	1501	1487
75°	1449	1443	1437
80°	1382	1373	1364
85°	1300	1281	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.3
10°-20°	182.9	9.4
20°-30°	275.6	14.2
30°-40°	330.3	17.0
40°-50°	341.6	17.6
50°-60°	309.7	16.0
60°-70°	240.7	12.4
70°-80°	147.0	7.6
80°-90°	46.0	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°	522.6	27.0
0°-40°	853.0	44.0
0°-60°	1504.3	77.6
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	676	675	672	675	676	64
15°	649	649	646	649	649	183
25°	598	598	597	600	600	275
35°	527	527	527	530	530	330
45°	442	442	443	444	444	341
55°	345	346	347	347	346	309
65°	244	244	244	242	245	241
75°	139	139	139	138	138	147
85°	42	41	42	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	678.4	677.8	674.7	677.8	678.4
5°	675.9	675.3	672.2	675.3	675.9
7.5°	671.6	671.6	668.5	671.6	671.6
10°	666.0	665.4	662.3	665.4	666.0
12.5°	657.9	657.9	654.8	657.9	658.6
15°	648.6	648.6	646.2	649.3	649.3
17.5°	638.1	638.7	635.6	639.3	639.3
20°	626.3	625.7	623.9	627.0	627.6
22.5°	612.1	612.7	610.8	614.6	615.2
25°	597.8	597.8	596.6	600.3	599.7
27.5°	582.4	582.4	580.5	583.6	584.2
30°	563.8	564.4	563.8	566.9	566.2
32.5°	546.4	547.0	547.0	548.3	548.9
35°	526.6	527.2	527.2	529.7	529.7
37.5°	506.8	506.8	507.4	509.2	509.2
40°	485.7	486.3	486.3	488.2	488.8
42.5°	465.3	464.0	464.6	466.5	466.5
45°	441.7	442.3	443.0	443.6	443.6
47.5°	418.2	419.4	420.0	420.7	420.0
50°	394.6	395.9	395.9	395.3	395.3
52.5°	369.2	372.3	371.7	371.7	373.0
55°	345.1	346.3	346.9	346.9	346.3
57.5°	320.9	322.2	320.9	321.5	320.3
60°	294.9	295.5	294.9	294.9	294.9
62.5°	269.5	270.1	268.9	268.9	268.9
65°	243.5	243.5	243.5	242.2	244.7
67.5°	216.2	217.5	217.5	218.1	215.6
70°	190.8	191.4	190.8	190.2	189.0
72.5°	165.4	166.0	166.7	164.2	163.6
75°	139.4	139.4	138.8	138.2	138.2
77.5°	114.0	114.0	114.0	112.8	112.8
80°	89.2	89.8	88.6	88.6	88.0
82.5°	65.0	65.0	65.0	64.4	63.2
85°	42.1	40.9	41.5	40.3	40.3
87.5°	19.2	19.2	19.2	18.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)