

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: P291545

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291545
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1956.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

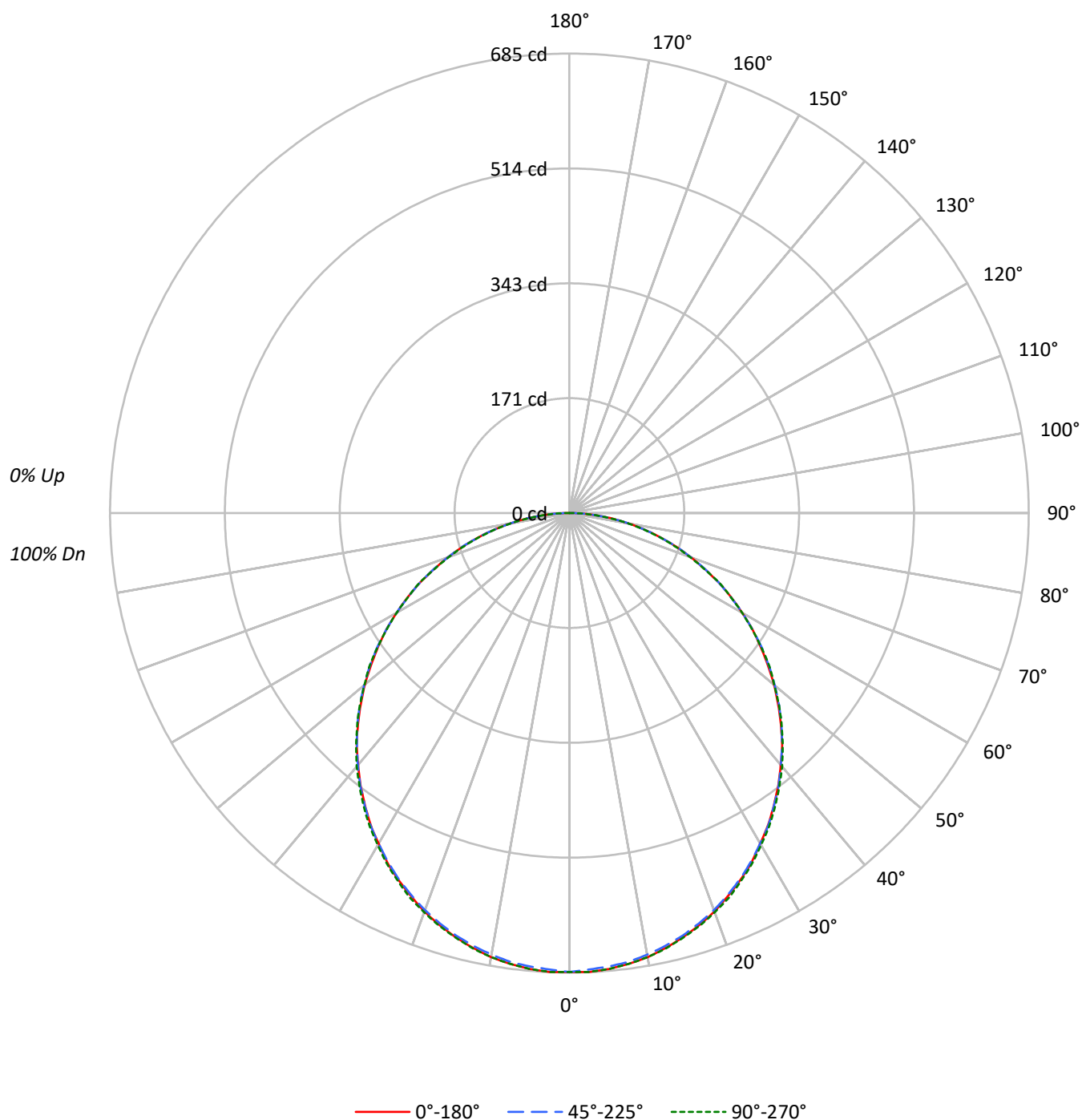
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1841	1841	1841
5°	1843	1833	1843
10°	1837	1826	1837
15°	1824	1817	1826
20°	1810	1803	1814
25°	1792	1788	1797
30°	1768	1768	1776
35°	1746	1748	1756
40°	1722	1724	1733
45°	1697	1701	1704
50°	1667	1673	1670
55°	1634	1643	1640
60°	1602	1602	1602
65°	1564	1564	1573
70°	1515	1515	1500
75°	1463	1457	1449
80°	1395	1385	1376
85°	1312	1294	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.3
10°-20°	184.6	9.4
20°-30°	278.2	14.2
30°-40°	333.4	17.0
40°-50°	344.7	17.6
50°-60°	312.6	16.0
60°-70°	242.9	12.4
70°-80°	148.4	7.6
80°-90°	46.4	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°	527.5	27.0
0°-40°	860.9	44.0
0°-60°	1518.2	77.6
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	682	678	682	682	65
15°	655	655	652	655	655	185
25°	603	603	602	606	605	278
35°	532	532	532	535	535	333
45°	446	446	447	448	448	344
55°	348	350	350	350	350	312
65°	246	246	246	244	247	243
75°	141	141	140	139	139	149
85°	42	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°	684.1	684.1	684.1	684.1	684.1
2.5°	684.7	684.1	680.9	684.1	684.7
5°	682.2	681.6	678.4	681.6	682.2
7.5°	677.8	677.8	674.7	677.8	677.8
10°	672.2	671.5	668.4	671.5	672.2
12.5°	664.0	664.0	660.9	664.0	664.7
15°	654.7	654.7	652.2	655.3	655.3
17.5°	644.0	644.7	641.5	645.3	645.3
20°	632.2	631.5	629.7	632.8	633.4
22.5°	617.8	618.4	616.5	620.3	620.9
25°	603.4	603.4	602.1	605.9	605.3
27.5°	587.8	587.8	585.9	589.0	589.6
30°	569.0	569.6	569.0	572.1	571.5
32.5°	551.5	552.1	552.1	553.4	554.0
35°	531.5	532.1	532.1	534.6	534.6
37.5°	511.5	511.5	512.1	514.0	514.0
40°	490.2	490.8	490.8	492.7	493.3
42.5°	469.6	468.3	469.0	470.8	470.8
45°	445.8	446.4	447.1	447.7	447.7
47.5°	422.1	423.3	423.9	424.6	423.9
50°	398.3	399.6	399.6	398.9	398.9
52.5°	372.7	375.8	375.2	375.2	376.4
55°	348.3	349.5	350.2	350.2	349.5
57.5°	323.9	325.1	323.9	324.5	323.3
60°	297.6	298.3	297.6	297.6	297.6
62.5°	272.0	272.6	271.4	271.4	271.4
65°	245.7	245.7	245.7	244.5	247.0
67.5°	218.2	219.5	219.5	220.1	217.6
70°	192.6	193.2	192.6	192.0	190.7
72.5°	166.9	167.6	168.2	165.7	165.1
75°	140.7	140.7	140.1	139.4	139.4
77.5°	115.1	115.1	115.1	113.8	113.8
80°	90.0	90.7	89.4	89.4	88.8
82.5°	65.7	65.7	65.7	65.0	63.8
85°	42.5	41.3	41.9	40.6	40.6
87.5°	19.4	19.4	19.4	18.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)