

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: P291589

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291589
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-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1929.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

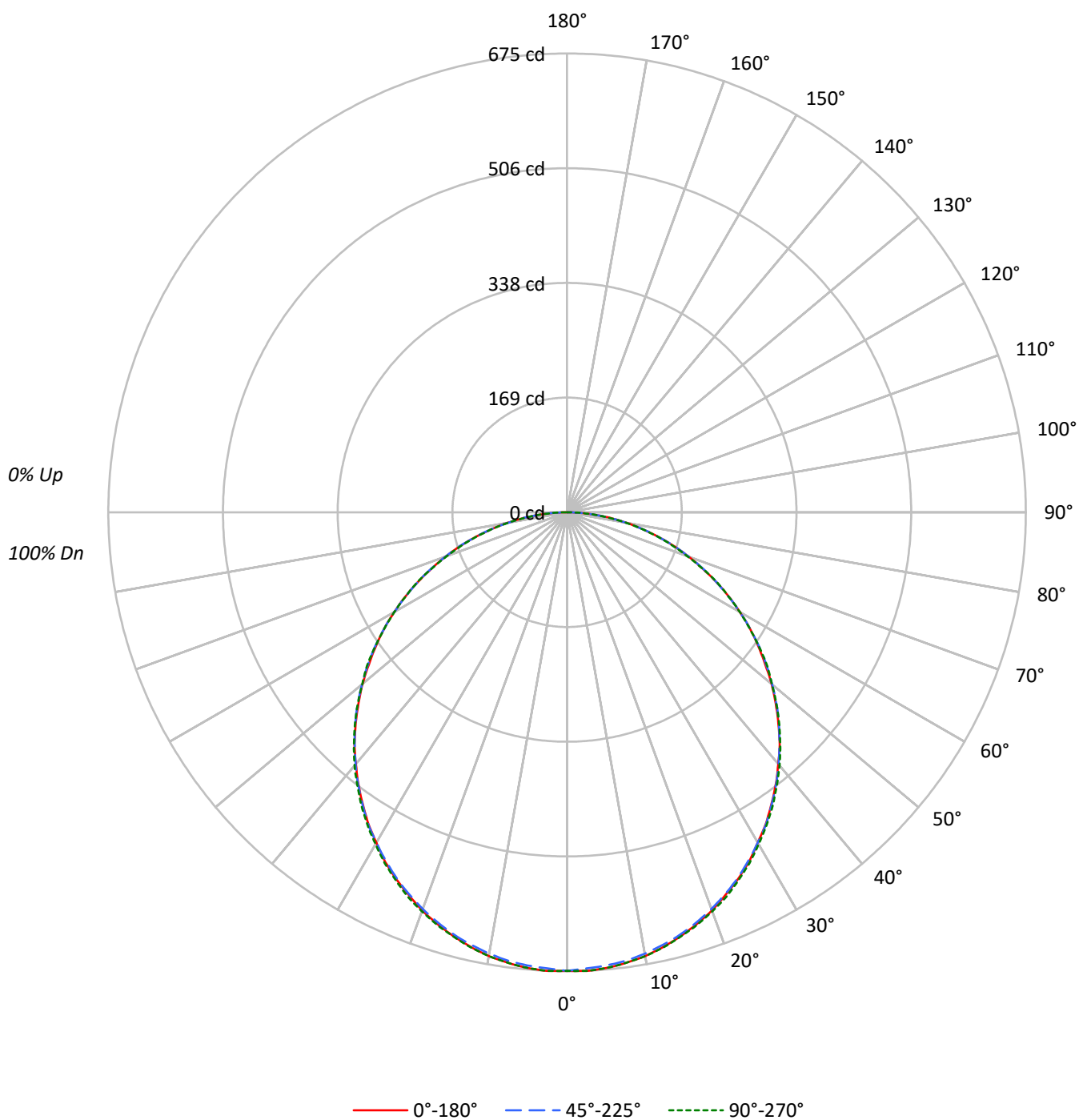
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1815	1815	1815
5°	1817	1807	1817
10°	1811	1801	1811
15°	1799	1792	1800
20°	1785	1778	1789
25°	1767	1763	1772
30°	1743	1743	1751
35°	1722	1724	1732
40°	1698	1701	1709
45°	1673	1678	1680
50°	1644	1649	1647
55°	1612	1620	1617
60°	1580	1580	1580
65°	1543	1543	1551
70°	1494	1494	1480
75°	1442	1436	1430
80°	1376	1367	1358
85°	1294	1275	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.3
10°-20°	182.1	9.4
20°-30°	274.4	14.2
30°-40°	328.8	17.0
40°-50°	340.0	17.6
50°-60°	308.3	16.0
60°-70°	239.6	12.4
70°-80°	146.3	7.6
80°-90°	45.8	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°	520.2	27.0
0°-40°	849.0	44.0
0°-60°	1497.3	77.6
0°-90°	1929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	673	672	669	672	673	64
15°	646	646	643	646	646	182
25°	595	595	594	598	597	274
35°	524	525	525	527	527	328
45°	440	440	441	442	442	339
55°	344	345	345	345	345	307
65°	242	242	242	241	244	239
75°	139	139	138	138	138	147
85°	42	41	41	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.6	674.6	674.6	674.6	674.6
2.5°	675.2	674.6	671.5	674.6	675.2
5°	672.8	672.1	669.1	672.1	672.8
7.5°	668.4	668.4	665.4	668.4	668.4
10°	662.9	662.3	659.2	662.3	662.9
12.5°	654.9	654.9	651.8	654.9	655.5
15°	645.6	645.6	643.2	646.2	646.2
17.5°	635.1	635.8	632.7	636.4	636.4
20°	623.4	622.8	621.0	624.0	624.7
22.5°	609.2	609.9	608.0	611.7	612.3
25°	595.1	595.1	593.8	597.5	596.9
27.5°	579.6	579.6	577.8	580.9	581.5
30°	561.1	561.8	561.1	564.2	563.6
32.5°	543.9	544.5	544.5	545.7	546.3
35°	524.1	524.8	524.8	527.2	527.2
37.5°	504.4	504.4	505.0	506.9	506.9
40°	483.4	484.1	484.1	485.9	486.5
42.5°	463.1	461.9	462.5	464.3	464.3
45°	439.7	440.3	440.9	441.5	441.5
47.5°	416.2	417.5	418.1	418.7	418.1
50°	392.8	394.0	394.0	393.4	393.4
52.5°	367.5	370.6	370.0	370.0	371.2
55°	343.5	344.7	345.3	345.3	344.7
57.5°	319.4	320.7	319.4	320.0	318.8
60°	293.5	294.1	293.5	293.5	293.5
62.5°	268.2	268.9	267.6	267.6	267.6
65°	242.3	242.3	242.3	241.1	243.6
67.5°	215.2	216.4	216.4	217.1	214.6
70°	189.9	190.5	189.9	189.3	188.1
72.5°	164.6	165.3	165.9	163.4	162.8
75°	138.7	138.7	138.1	137.5	137.5
77.5°	113.5	113.5	113.5	112.2	112.2
80°	88.8	89.4	88.2	88.2	87.6
82.5°	64.7	64.7	64.7	64.1	62.9
85°	41.9	40.7	41.3	40.1	40.1
87.5°	19.1	19.1	19.1	17.9	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)