

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: P291588

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291588
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1924.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

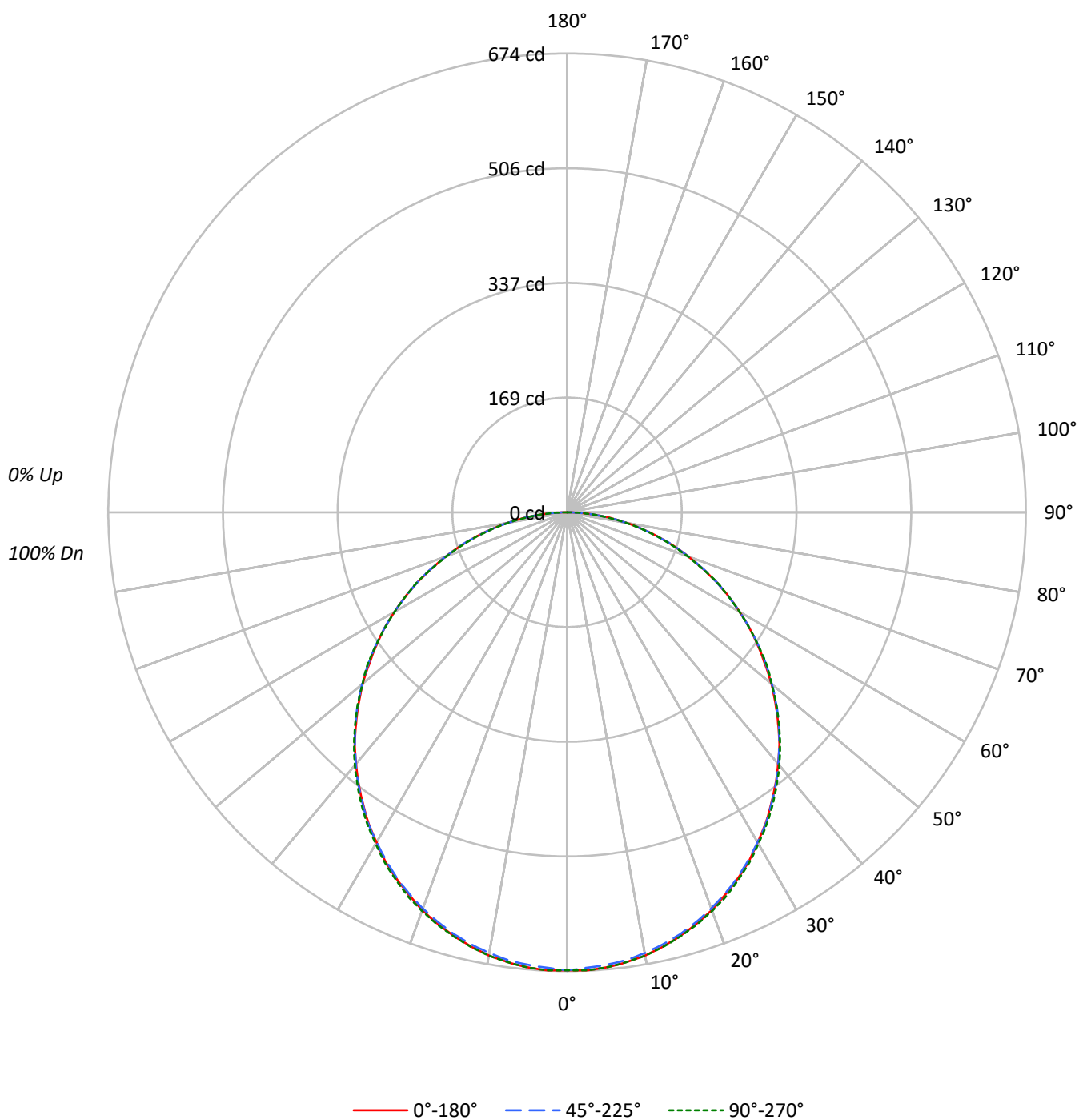
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1811	1811	1811
5°	1813	1803	1813
10°	1807	1797	1807
15°	1794	1787	1796
20°	1781	1774	1784
25°	1762	1759	1768
30°	1739	1739	1747
35°	1717	1719	1728
40°	1694	1696	1705
45°	1669	1674	1676
50°	1640	1645	1643
55°	1607	1616	1613
60°	1576	1576	1576
65°	1539	1539	1547
70°	1490	1490	1476
75°	1439	1433	1426
80°	1373	1364	1353
85°	1291	1272	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.3
10°-20°	181.6	9.4
20°-30°	273.7	14.2
30°-40°	327.9	17.0
40°-50°	339.1	17.6
50°-60°	307.5	16.0
60°-70°	239.0	12.4
70°-80°	146.0	7.6
80°-90°	45.7	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°	518.9	27.0
0°-40°	846.8	44.0
0°-60°	1493.4	77.6
0°-90°	1924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	671	670	667	670	671	64
15°	644	644	642	645	645	182
25°	594	594	592	596	595	273
35°	523	523	523	526	526	327
45°	438	439	440	440	440	338
55°	343	344	344	344	344	306
65°	242	242	242	240	243	239
75°	138	138	138	137	137	146
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°	672.9	672.9	672.9	672.9	672.9
2.5°	673.5	672.9	669.8	672.9	673.5
5°	671.0	670.4	667.3	670.4	671.0
7.5°	666.7	666.7	663.6	666.7	666.7
10°	661.2	660.6	657.5	660.6	661.2
12.5°	653.2	653.2	650.1	653.2	653.8
15°	644.0	644.0	641.5	644.6	644.6
17.5°	633.5	634.1	631.0	634.7	634.7
20°	621.8	621.2	619.4	622.4	623.0
22.5°	607.7	608.3	606.4	610.1	610.7
25°	593.5	593.5	592.3	596.0	595.4
27.5°	578.1	578.1	576.3	579.4	580.0
30°	559.7	560.3	559.7	562.8	562.2
32.5°	542.5	543.1	543.1	544.3	544.9
35°	522.8	523.4	523.4	525.9	525.9
37.5°	503.1	503.1	503.7	505.6	505.6
40°	482.2	482.8	482.8	484.7	485.3
42.5°	461.9	460.7	461.3	463.1	463.1
45°	438.5	439.1	439.8	440.4	440.4
47.5°	415.2	416.4	417.0	417.6	417.0
50°	391.8	393.0	393.0	392.4	392.4
52.5°	366.6	369.6	369.0	369.0	370.3
55°	342.6	343.8	344.4	344.4	343.8
57.5°	318.6	319.8	318.6	319.2	318.0
60°	292.8	293.4	292.8	292.8	292.8
62.5°	267.5	268.2	266.9	266.9	266.9
65°	241.7	241.7	241.7	240.5	242.9
67.5°	214.7	215.9	215.9	216.5	214.0
70°	189.4	190.0	189.4	188.8	187.6
72.5°	164.2	164.8	165.4	163.0	162.4
75°	138.4	138.4	137.8	137.2	137.2
77.5°	113.2	113.2	113.2	111.9	111.9
80°	88.6	89.2	88.0	88.0	87.3
82.5°	64.6	64.6	64.6	64.0	62.7
85°	41.8	40.6	41.2	40.0	40.0
87.5°	19.1	19.1	19.1	17.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)