

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: P291606

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291606
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-LD5-32-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: 2607.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

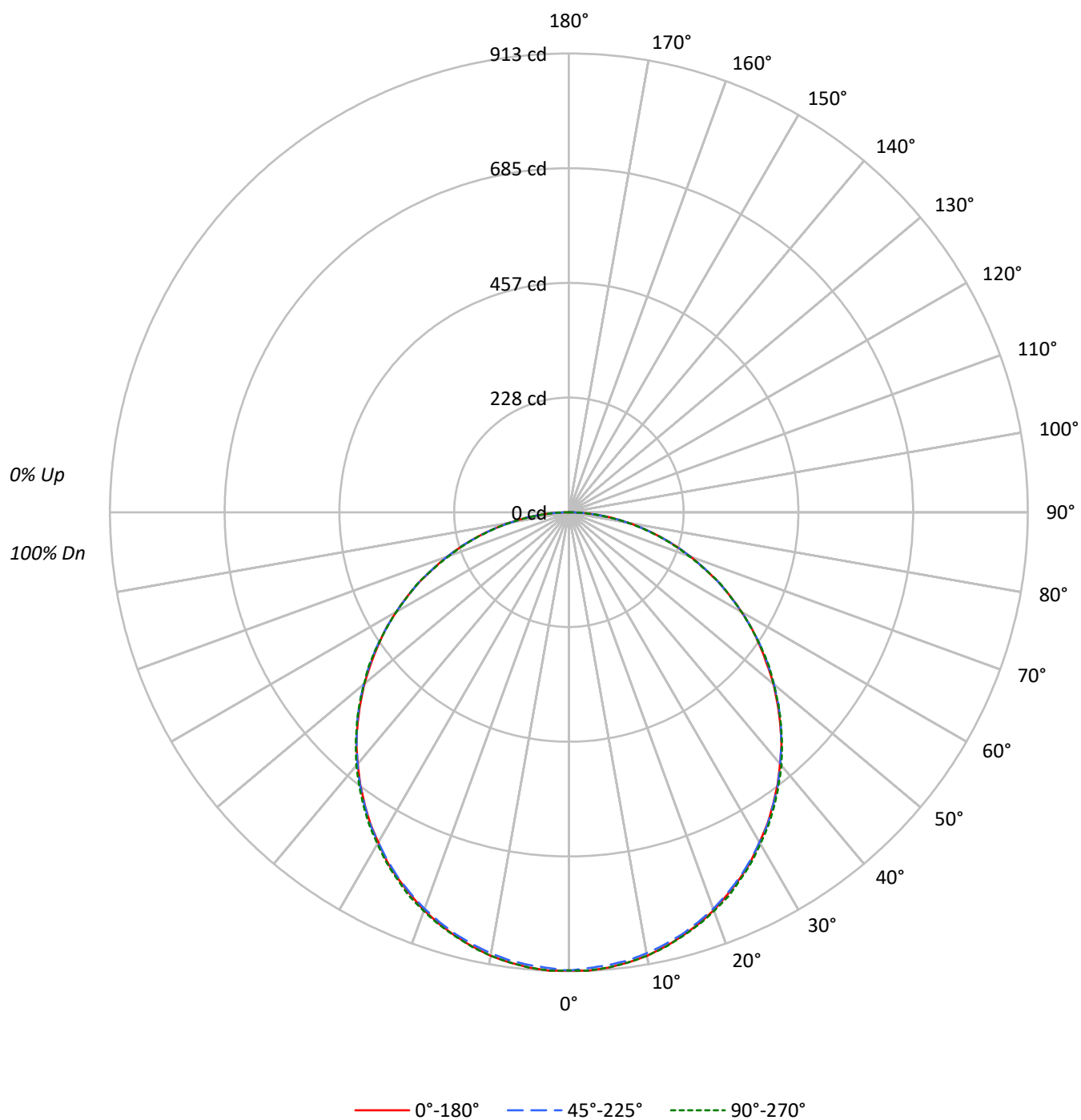
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2453	2453	2453
5°	2456	2442	2456
10°	2448	2434	2448
15°	2431	2422	2433
20°	2413	2403	2418
25°	2388	2383	2395
30°	2357	2357	2367
35°	2327	2330	2341
40°	2295	2298	2310
45°	2261	2268	2271
50°	2223	2229	2226
55°	2178	2190	2186
60°	2135	2135	2135
65°	2085	2085	2096
70°	2020	2020	2000
75°	1949	1941	1932
80°	1860	1847	1833
85°	1751	1723	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.3
10°-20°	246.1	9.4
20°-30°	370.8	14.2
30°-40°	444.3	17.0
40°-50°	459.5	17.6
50°-60°	416.6	16.0
60°-70°	323.8	12.4
70°-80°	197.8	7.6
80°-90°	61.9	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°	703.1	27.0
0°-40°	1147.4	44.0
0°-60°	2023.5	77.6
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	909	908	904	908	909	86
15°	873	873	869	873	873	246
25°	804	804	802	808	807	371
35°	708	709	709	712	712	443
45°	594	595	596	597	597	458
55°	464	466	467	467	466	415
65°	328	328	328	326	329	324
75°	188	188	187	186	186	198
85°	57	55	56	54	54	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.7	911.7	911.7	911.7	911.7
2.5°	912.6	911.7	907.6	911.7	912.6
5°	909.2	908.4	904.2	908.4	909.2
7.5°	903.4	903.4	899.2	903.4	903.4
10°	895.9	895.1	890.9	895.1	895.9
12.5°	885.1	885.1	880.9	885.1	885.9
15°	872.6	872.6	869.2	873.4	873.4
17.5°	858.4	859.2	855.0	860.1	860.1
20°	842.5	841.7	839.2	843.4	844.2
22.5°	823.4	824.2	821.7	826.7	827.5
25°	804.2	804.2	802.5	807.5	806.7
27.5°	783.4	783.4	780.9	785.0	785.9
30°	758.4	759.2	758.4	762.5	761.7
32.5°	735.0	735.9	735.9	737.5	738.4
35°	708.4	709.2	709.2	712.5	712.5
37.5°	681.7	681.7	682.5	685.0	685.0
40°	653.4	654.2	654.2	656.7	657.5
42.5°	625.9	624.2	625.0	627.5	627.5
45°	594.2	595.0	595.9	596.7	596.7
47.5°	562.5	564.2	565.0	565.9	565.0
50°	530.9	532.5	532.5	531.7	531.7
52.5°	496.7	500.9	500.0	500.0	501.7
55°	464.2	465.9	466.7	466.7	465.9
57.5°	431.7	433.4	431.7	432.5	430.9
60°	396.7	397.5	396.7	396.7	396.7
62.5°	362.5	363.4	361.7	361.7	361.7
65°	327.5	327.5	327.5	325.9	329.2
67.5°	290.9	292.5	292.5	293.4	290.0
70°	256.7	257.5	256.7	255.8	254.2
72.5°	222.5	223.3	224.2	220.8	220.0
75°	187.5	187.5	186.7	185.8	185.8
77.5°	153.3	153.3	153.3	151.7	151.7
80°	120.0	120.8	119.2	119.2	118.3
82.5°	87.5	87.5	87.5	86.7	85.0
85°	56.7	55.0	55.8	54.2	54.2
87.5°	25.8	25.8	25.8	24.2	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)