

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: P291710

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291710
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-LD5-36-FGW080-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

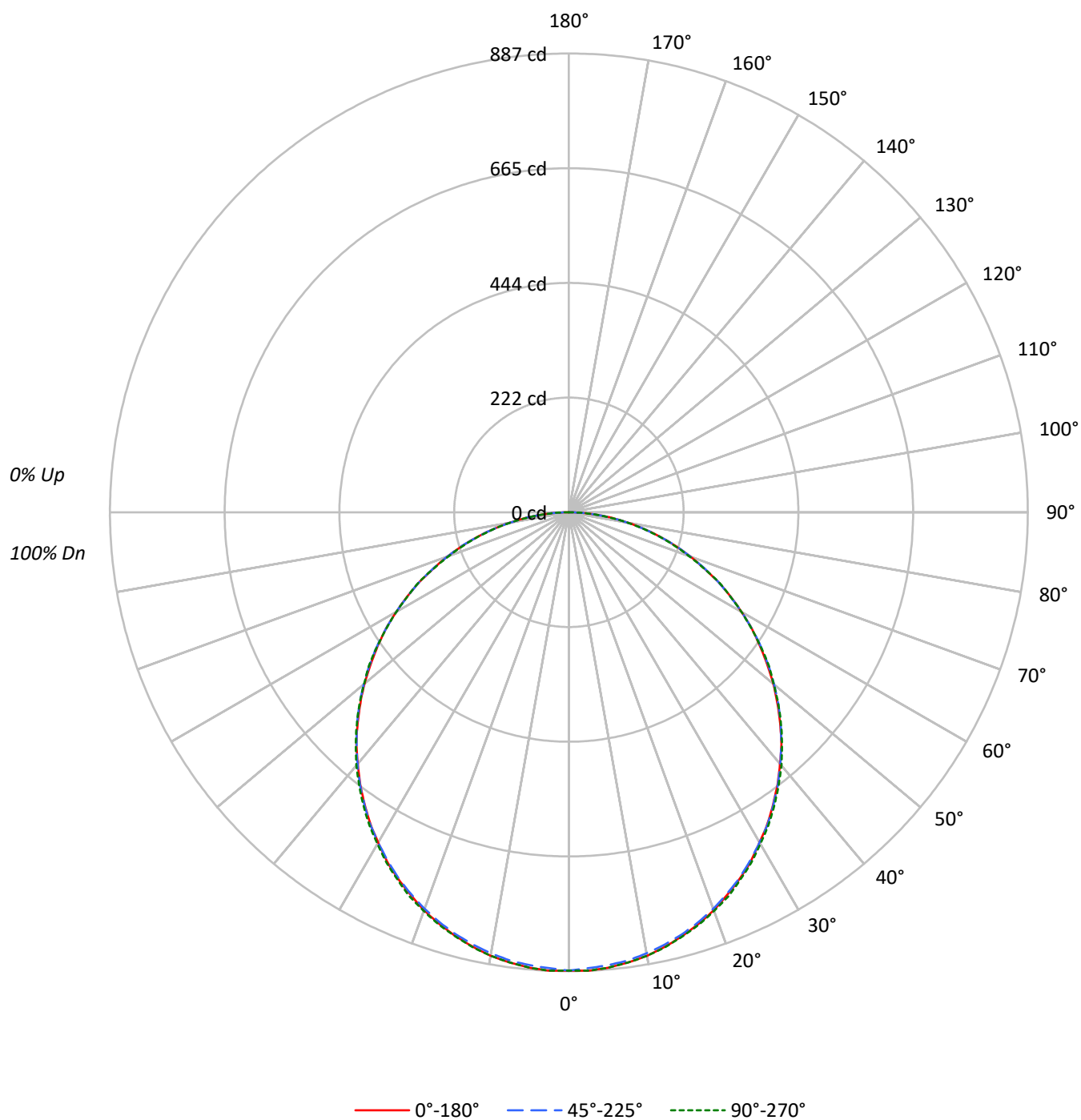
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2384	2384	2384
5°	2386	2373	2386
10°	2379	2365	2379
15°	2362	2353	2364
20°	2344	2335	2349
25°	2320	2315	2327
30°	2290	2290	2300
35°	2261	2264	2274
40°	2230	2233	2244
45°	2197	2203	2206
50°	2159	2166	2163
55°	2116	2127	2123
60°	2074	2074	2074
65°	2026	2026	2036
70°	1962	1962	1943
75°	1894	1886	1878
80°	1807	1795	1782
85°	1701	1677	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.3
10°-20°	239.1	9.4
20°-30°	360.3	14.2
30°-40°	431.7	17.0
40°-50°	446.4	17.6
50°-60°	404.8	16.0
60°-70°	314.6	12.4
70°-80°	192.2	7.6
80°-90°	60.1	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°	683.1	27.0
0°-40°	1114.9	44.0
0°-60°	1966.1	77.6
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	883	883	879	883	883	84
15°	848	848	844	849	849	239
25°	781	781	780	785	784	360
35°	688	689	689	692	692	431
45°	577	578	579	580	580	445
55°	451	453	453	453	453	403
65°	318	318	318	317	320	314
75°	182	182	181	181	181	193
85°	55	53	54	53	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.8	885.8	885.8	885.8	885.8
2.5°	886.7	885.8	881.8	885.8	886.7
5°	883.4	882.6	878.6	882.6	883.4
7.5°	877.7	877.7	873.7	877.7	877.7
10°	870.5	869.6	865.6	869.6	870.5
12.5°	859.9	859.9	855.9	859.9	860.7
15°	847.8	847.8	844.5	848.6	848.6
17.5°	834.0	834.8	830.8	835.6	835.6
20°	818.6	817.8	815.4	819.4	820.3
22.5°	800.0	800.8	798.4	803.2	804.1
25°	781.4	781.4	779.8	784.6	783.8
27.5°	761.1	761.1	758.7	762.8	763.6
30°	736.9	737.7	736.9	740.9	740.1
32.5°	714.2	715.0	715.0	716.6	717.4
35°	688.3	689.1	689.1	692.3	692.3
37.5°	662.4	662.4	663.2	665.6	665.6
40°	634.8	635.6	635.6	638.1	638.9
42.5°	608.1	606.5	607.3	609.7	609.7
45°	577.3	578.1	579.0	579.8	579.8
47.5°	546.6	548.2	549.0	549.8	549.0
50°	515.8	517.4	517.4	516.6	516.6
52.5°	482.6	486.6	485.8	485.8	487.5
55°	451.0	452.6	453.4	453.4	452.6
57.5°	419.4	421.1	419.4	420.2	418.6
60°	385.4	386.2	385.4	385.4	385.4
62.5°	352.2	353.0	351.4	351.4	351.4
65°	318.2	318.2	318.2	316.6	319.8
67.5°	282.6	284.2	284.2	285.0	281.8
70°	249.4	250.2	249.4	248.6	247.0
72.5°	216.2	217.0	217.8	214.6	213.8
75°	182.2	182.2	181.4	180.6	180.6
77.5°	149.0	149.0	149.0	147.4	147.4
80°	116.6	117.4	115.8	115.8	115.0
82.5°	85.0	85.0	85.0	84.2	82.6
85°	55.1	53.4	54.3	52.6	52.6
87.5°	25.1	25.1	25.1	23.5	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)