

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: P291656

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291656
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2376.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

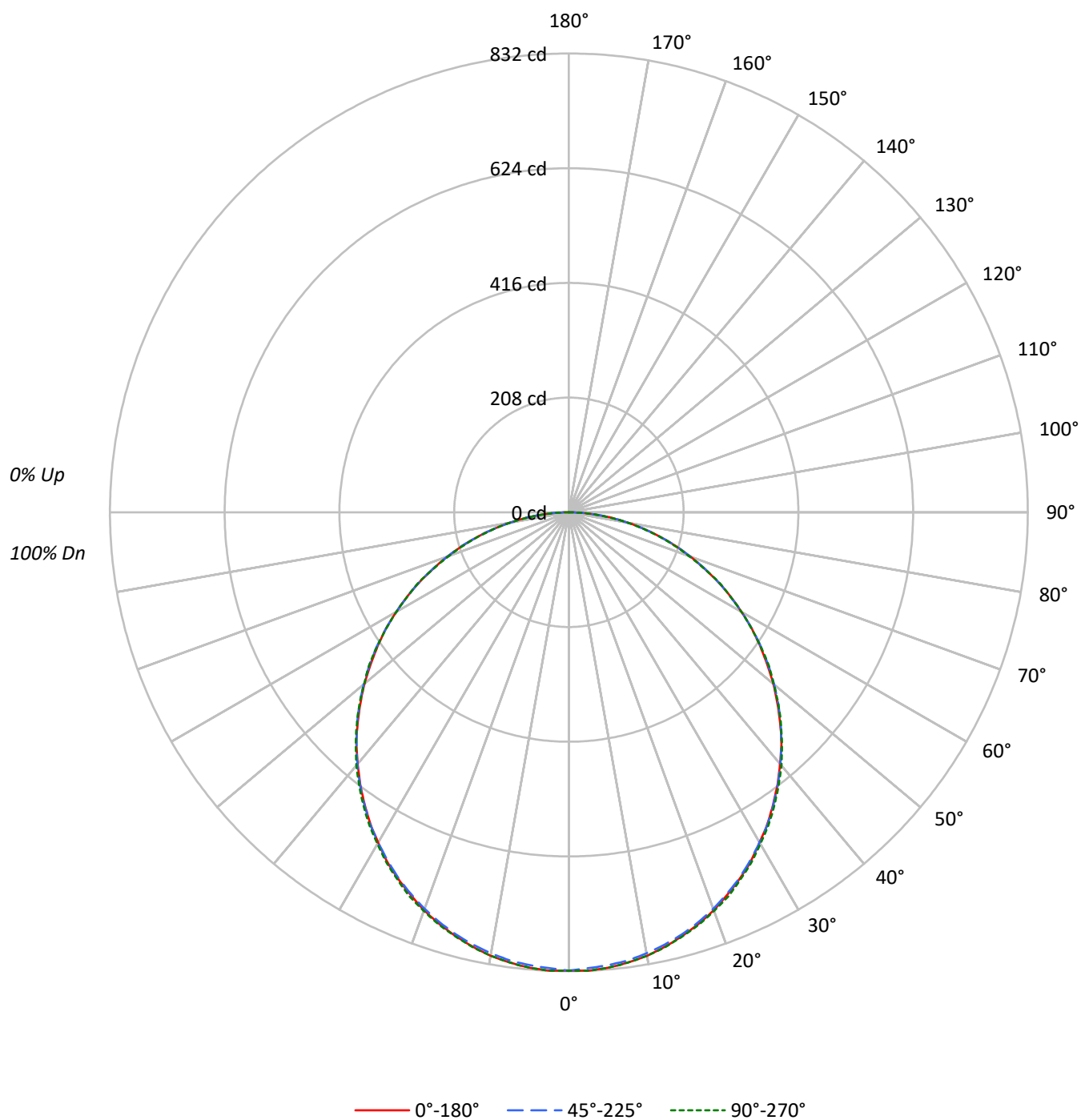
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2236	2236	2236
5°	2239	2226	2239
10°	2231	2219	2231
15°	2215	2207	2218
20°	2199	2190	2203
25°	2176	2172	2183
30°	2148	2148	2157
35°	2121	2123	2133
40°	2092	2094	2105
45°	2061	2067	2069
50°	2025	2032	2029
55°	1985	1995	1992
60°	1946	1946	1946
65°	1901	1901	1910
70°	1840	1840	1823
75°	1777	1769	1761
80°	1695	1683	1672
85°	1593	1572	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.3
10°-20°	224.2	9.4
20°-30°	337.9	14.2
30°-40°	405.0	17.0
40°-50°	418.8	17.6
50°-60°	379.7	16.0
60°-70°	295.1	12.4
70°-80°	180.2	7.6
80°-90°	56.4	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°	640.8	27.0
0°-40°	1045.8	44.0
0°-60°	1844.2	77.6
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	829	828	824	828	829	79
15°	795	795	792	796	796	224
25°	733	733	731	736	735	338
35°	646	646	646	649	649	404
45°	542	542	543	544	544	418
55°	423	425	425	425	425	378
65°	298	298	298	297	300	295
75°	171	171	170	169	169	181
85°	52	50	51	49	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.9	830.9	830.9	830.9	830.9
2.5°	831.7	830.9	827.1	830.9	831.7
5°	828.7	827.9	824.1	827.9	828.7
7.5°	823.3	823.3	819.5	823.3	823.3
10°	816.5	815.7	811.9	815.7	816.5
12.5°	806.6	806.6	802.8	806.6	807.4
15°	795.2	795.2	792.2	796.0	796.0
17.5°	782.3	783.1	779.3	783.8	783.8
20°	767.9	767.1	764.9	768.7	769.4
22.5°	750.4	751.2	748.9	753.5	754.2
25°	733.0	733.0	731.4	736.0	735.2
27.5°	714.0	714.0	711.7	715.5	716.2
30°	691.2	691.9	691.2	695.0	694.2
32.5°	669.9	670.7	670.7	672.2	673.0
35°	645.6	646.4	646.4	649.4	649.4
37.5°	621.3	621.3	622.1	624.3	624.3
40°	595.5	596.2	596.2	598.5	599.3
42.5°	570.4	568.9	569.7	571.9	571.9
45°	541.6	542.3	543.1	543.8	543.8
47.5°	512.7	514.2	515.0	515.7	515.0
50°	483.8	485.3	485.3	484.6	484.6
52.5°	452.7	456.5	455.7	455.7	457.2
55°	423.1	424.6	425.3	425.3	424.6
57.5°	393.4	395.0	393.4	394.2	392.7
60°	361.5	362.3	361.5	361.5	361.5
62.5°	330.4	331.2	329.6	329.6	329.6
65°	298.5	298.5	298.5	297.0	300.0
67.5°	265.1	266.6	266.6	267.4	264.3
70°	233.9	234.7	233.9	233.2	231.7
72.5°	202.8	203.6	204.3	201.3	200.5
75°	170.9	170.9	170.1	169.4	169.4
77.5°	139.8	139.8	139.8	138.2	138.2
80°	109.4	110.1	108.6	108.6	107.9
82.5°	79.8	79.8	79.8	79.0	77.5
85°	51.6	50.1	50.9	49.4	49.4
87.5°	23.5	23.5	23.5	22.0	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)