

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: P291712

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291712
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2624.0 lumens
Efficiency: N/A
Efficacy: 87.1 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

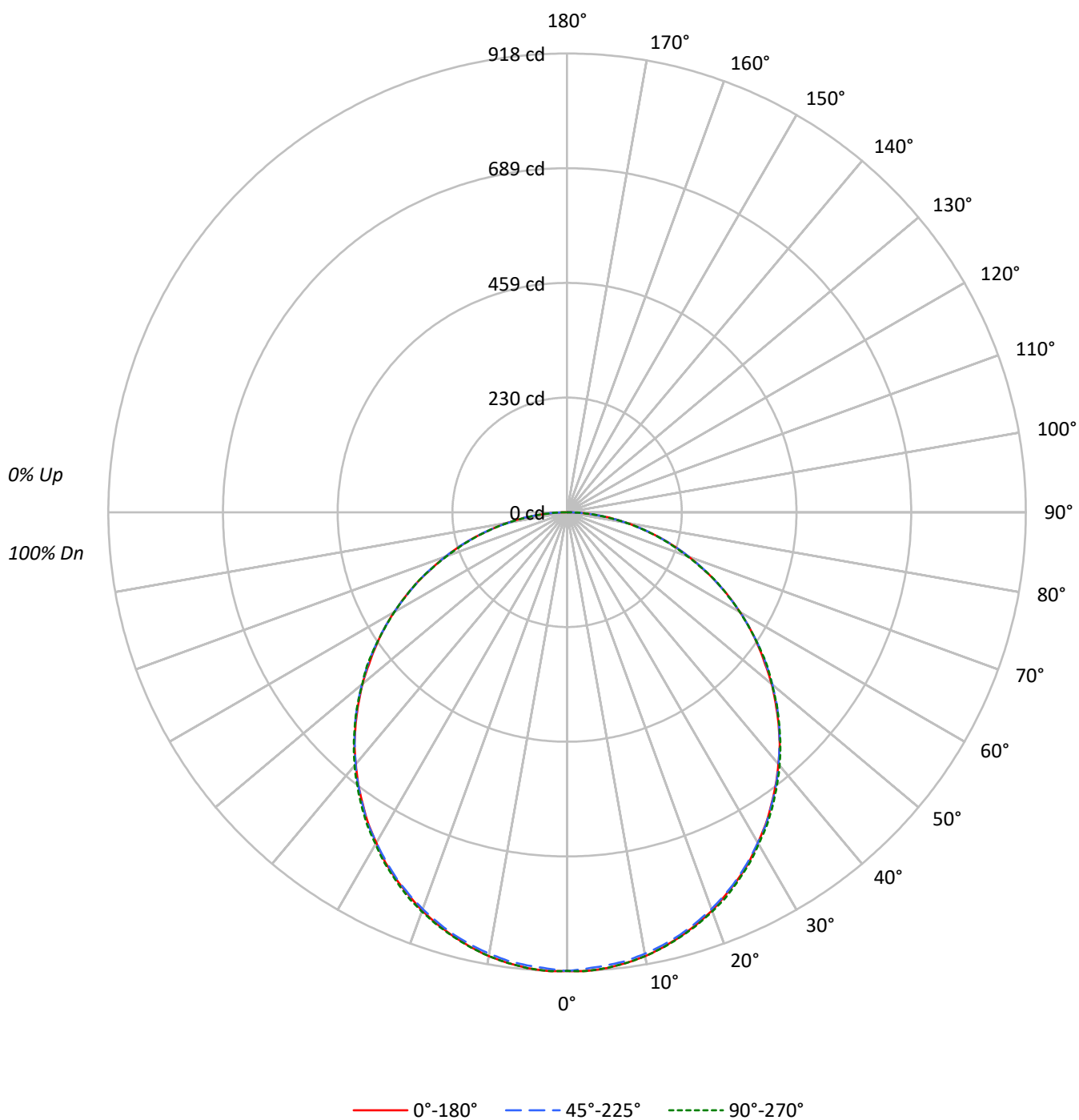
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2470	2470	2470
5°	2472	2458	2472
10°	2464	2450	2464
15°	2447	2437	2449
20°	2428	2419	2433
25°	2404	2398	2411
30°	2372	2372	2382
35°	2342	2345	2356
40°	2310	2313	2325
45°	2276	2283	2286
50°	2237	2244	2241
55°	2192	2204	2200
60°	2149	2149	2149
65°	2099	2099	2110
70°	2033	2033	2013
75°	1962	1954	1945
80°	1872	1860	1846
85°	1760	1735	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.3
10°-20°	247.7	9.4
20°-30°	373.2	14.2
30°-40°	447.3	17.0
40°-50°	462.5	17.6
50°-60°	419.4	16.0
60°-70°	325.9	12.4
70°-80°	199.1	7.6
80°-90°	62.3	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°	707.7	27.0
0°-40°	1154.9	44.0
0°-60°	2036.8	77.6
0°-90°	2624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	915	914	910	914	915	87
15°	878	878	875	879	879	248
25°	810	810	808	813	812	373
35°	713	714	714	717	717	446
45°	598	599	600	601	601	461
55°	467	469	470	470	469	418
65°	330	330	330	328	331	326
75°	189	189	188	187	187	200
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°	917.7	917.7	917.7	917.7	917.7
2.5°	918.5	917.7	913.5	917.7	918.5
5°	915.1	914.3	910.1	914.3	915.1
7.5°	909.3	909.3	905.1	909.3	909.3
10°	901.7	900.9	896.7	900.9	901.7
12.5°	890.8	890.8	886.6	890.8	891.7
15°	878.2	878.2	874.9	879.1	879.1
17.5°	864.0	864.8	860.6	865.7	865.7
20°	848.0	847.2	844.7	848.9	849.7
22.5°	828.8	829.6	827.1	832.1	832.9
25°	809.5	809.5	807.8	812.8	812.0
27.5°	788.5	788.5	786.0	790.2	791.0
30°	763.3	764.2	763.3	767.5	766.7
32.5°	739.8	740.7	740.7	742.4	743.2
35°	713.0	713.8	713.8	717.2	717.2
37.5°	686.2	686.2	687.0	689.5	689.5
40°	657.6	658.5	658.5	661.0	661.8
42.5°	630.0	628.3	629.1	631.6	631.6
45°	598.1	598.9	599.8	600.6	600.6
47.5°	566.2	567.9	568.7	569.6	568.7
50°	534.3	536.0	536.0	535.2	535.2
52.5°	499.9	504.1	503.3	503.3	505.0
55°	467.2	468.9	469.7	469.7	468.9
57.5°	434.5	436.2	434.5	435.3	433.7
60°	399.3	400.1	399.3	399.3	399.3
62.5°	364.9	365.7	364.0	364.0	364.0
65°	329.7	329.7	329.7	328.0	331.3
67.5°	292.7	294.4	294.4	295.3	291.9
70°	258.4	259.2	258.4	257.5	255.8
72.5°	224.0	224.8	225.6	222.3	221.4
75°	188.7	188.7	187.9	187.1	187.1
77.5°	154.3	154.3	154.3	152.7	152.7
80°	120.8	121.6	120.0	120.0	119.1
82.5°	88.1	88.1	88.1	87.2	85.6
85°	57.0	55.4	56.2	54.5	54.5
87.5°	26.0	26.0	26.0	24.3	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)