

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: P291714

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291714
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2653.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

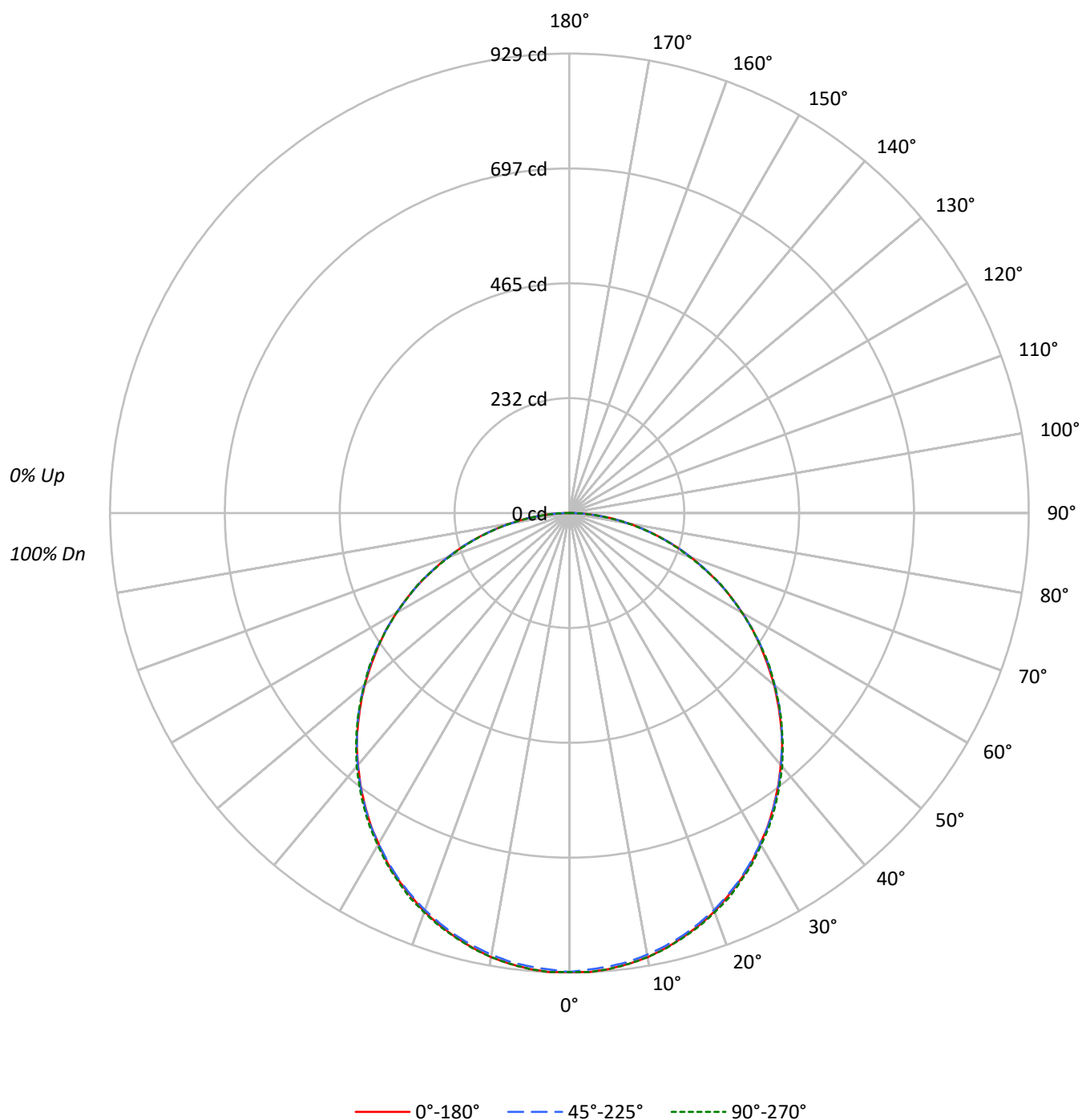
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2497	2497	2497
5°	2499	2486	2499
10°	2491	2477	2491
15°	2474	2464	2476
20°	2455	2446	2460
25°	2430	2425	2437
30°	2398	2398	2409
35°	2368	2371	2382
40°	2336	2338	2350
45°	2301	2308	2311
50°	2262	2269	2265
55°	2216	2228	2224
60°	2173	2173	2173
65°	2122	2122	2133
70°	2055	2055	2035
75°	1984	1975	1966
80°	1892	1880	1866
85°	1782	1754	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	250.4	9.4
20°-30°	377.3	14.2
30°-40°	452.2	17.0
40°-50°	467.6	17.6
50°-60°	424.0	16.0
60°-70°	329.5	12.4
70°-80°	201.3	7.6
80°-90°	63.0	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°	715.5	27.0
0°-40°	1167.7	44.0
0°-60°	2059.3	77.6
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	925	924	920	924	925	88
15°	888	888	885	889	889	251
25°	818	818	817	822	821	377
35°	721	722	722	725	725	451
45°	605	606	606	607	607	467
55°	472	474	475	475	474	423
65°	333	333	333	332	335	329
75°	191	191	190	189	189	202
85°	58	56	57	55	55	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.8	927.8	927.8	927.8	927.8
2.5°	928.7	927.8	923.6	927.8	928.7
5°	925.3	924.4	920.2	924.4	925.3
7.5°	919.3	919.3	915.1	919.3	919.3
10°	911.7	910.8	906.6	910.8	911.7
12.5°	900.7	900.7	896.4	900.7	901.5
15°	887.9	887.9	884.6	888.8	888.8
17.5°	873.5	874.4	870.1	875.2	875.2
20°	857.4	856.6	854.0	858.3	859.1
22.5°	837.9	838.8	836.2	841.3	842.2
25°	818.4	818.4	816.7	821.8	820.9
27.5°	797.2	797.2	794.7	798.9	799.7
30°	771.8	772.6	771.8	776.0	775.2
32.5°	748.0	748.9	748.9	750.6	751.4
35°	720.9	721.7	721.7	725.1	725.1
37.5°	693.7	693.7	694.6	697.1	697.1
40°	664.9	665.7	665.7	668.3	669.1
42.5°	636.9	635.2	636.1	638.6	638.6
45°	604.7	605.5	606.4	607.2	607.2
47.5°	572.5	574.2	575.0	575.9	575.0
50°	540.2	541.9	541.9	541.1	541.1
52.5°	505.5	509.7	508.9	508.9	510.5
55°	472.4	474.1	474.9	474.9	474.1
57.5°	439.3	441.0	439.3	440.2	438.5
60°	403.7	404.5	403.7	403.7	403.7
62.5°	368.9	369.8	368.1	368.1	368.1
65°	333.3	333.3	333.3	331.6	335.0
67.5°	296.0	297.7	297.7	298.5	295.1
70°	261.2	262.1	261.2	260.4	258.7
72.5°	226.4	227.3	228.1	224.7	223.9
75°	190.8	190.8	190.0	189.1	189.1
77.5°	156.0	156.0	156.0	154.4	154.4
80°	122.1	123.0	121.3	121.3	120.4
82.5°	89.0	89.0	89.0	88.2	86.5
85°	57.7	56.0	56.8	55.1	55.1
87.5°	26.3	26.3	26.3	24.6	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)