

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: P291708

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291708
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-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: 2392.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

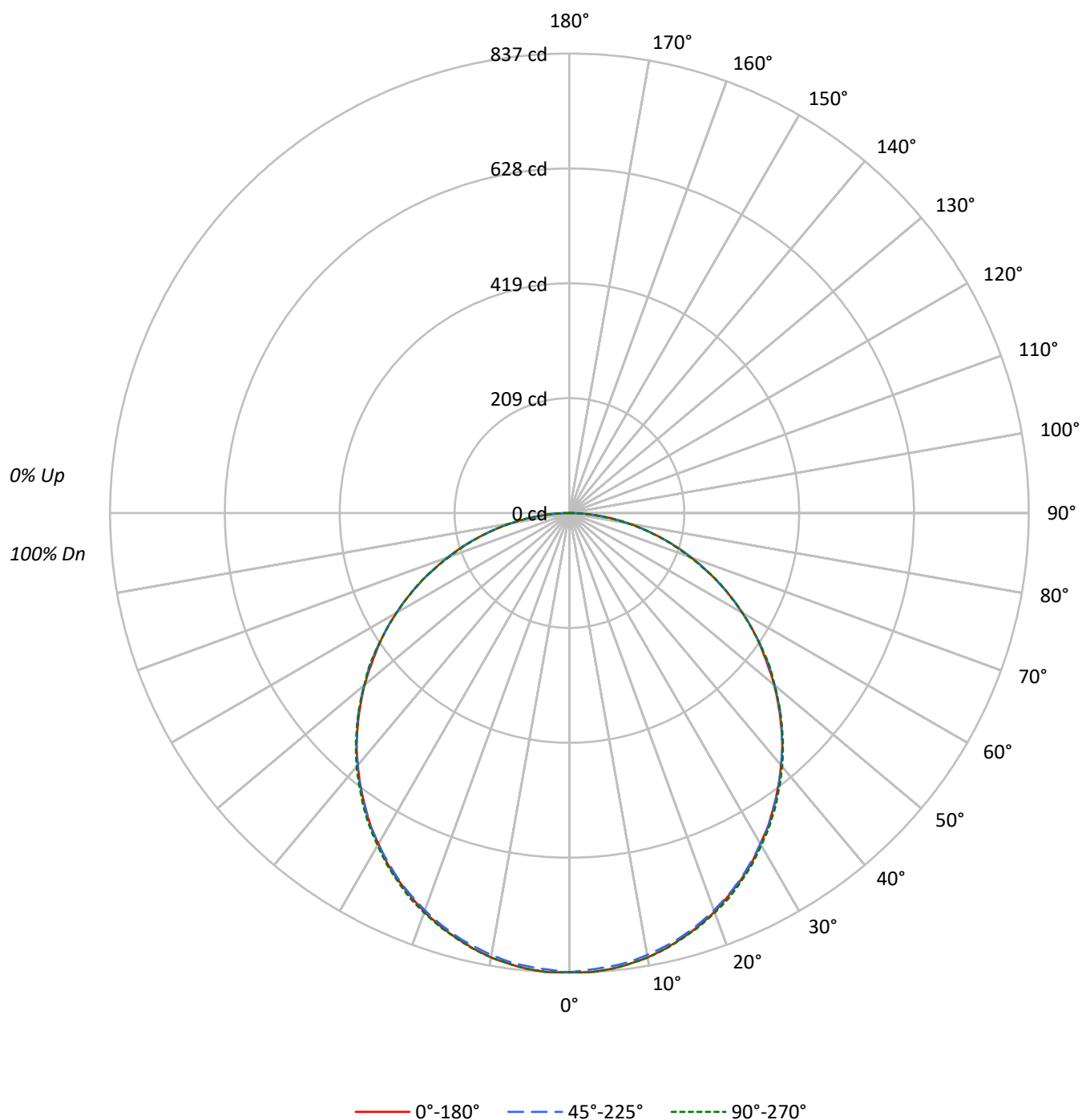
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2251	2251	2251
5°	2253	2241	2253
10°	2246	2234	2246
15°	2230	2222	2233
20°	2214	2205	2218
25°	2191	2186	2198
30°	2162	2162	2172
35°	2135	2138	2148
40°	2106	2109	2119
45°	2075	2081	2084
50°	2039	2045	2042
55°	1998	2009	2005
60°	1959	1959	1959
65°	1913	1913	1923
70°	1853	1853	1835
75°	1788	1781	1773
80°	1706	1694	1683
85°	1606	1581	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.3
10°-20°	225.8	9.4
20°-30°	340.2	14.2
30°-40°	407.7	17.0
40°-50°	421.6	17.6
50°-60°	382.3	16.0
60°-70°	297.1	12.4
70°-80°	181.5	7.6
80°-90°	56.8	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°	645.1	27.0
0°-40°	1052.8	44.0
0°-60°	1856.7	77.6
0°-90°	2392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	834	834	830	834	834	79
15°	801	801	798	801	801	226
25°	738	738	736	741	740	340
35°	650	651	651	654	654	407
45°	545	546	547	548	548	421
55°	426	427	428	428	427	381
65°	300	300	300	299	302	297
75°	172	172	171	170	170	182
85°	52	50	51	50	50	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.5	836.5	836.5	836.5	836.5
2.5°	837.3	836.5	832.7	836.5	837.3
5°	834.2	833.5	829.6	833.5	834.2
7.5°	828.9	828.9	825.1	828.9	828.9
10°	822.0	821.2	817.4	821.2	822.0
12.5°	812.1	812.1	808.2	812.1	812.8
15°	800.6	800.6	797.5	801.4	801.4
17.5°	787.6	788.4	784.5	789.1	789.1
20°	773.1	772.3	770.0	773.8	774.6
22.5°	755.5	756.2	753.9	758.5	759.3
25°	737.9	737.9	736.4	740.9	740.2
27.5°	718.8	718.8	716.5	720.3	721.1
30°	695.8	696.6	695.8	699.7	698.9
32.5°	674.4	675.2	675.2	676.7	677.5
35°	650.0	650.7	650.7	653.8	653.8
37.5°	625.5	625.5	626.3	628.5	628.5
40°	599.5	600.3	600.3	602.5	603.3
42.5°	574.3	572.7	573.5	575.8	575.8
45°	545.2	546.0	546.7	547.5	547.5
47.5°	516.1	517.7	518.4	519.2	518.4
50°	487.1	488.6	488.6	487.8	487.8
52.5°	455.7	459.6	458.8	458.8	460.3
55°	425.9	427.4	428.2	428.2	427.4
57.5°	396.1	397.6	396.1	396.9	395.3
60°	364.0	364.7	364.0	364.0	364.0
62.5°	332.6	333.4	331.9	331.9	331.9
65°	300.5	300.5	300.5	299.0	302.0
67.5°	266.9	268.4	268.4	269.2	266.1
70°	235.5	236.3	235.5	234.7	233.2
72.5°	204.2	204.9	205.7	202.6	201.9
75°	172.0	172.0	171.3	170.5	170.5
77.5°	140.7	140.7	140.7	139.2	139.2
80°	110.1	110.9	109.3	109.3	108.6
82.5°	80.3	80.3	80.3	79.5	78.0
85°	52.0	50.5	51.2	49.7	49.7
87.5°	23.7	23.7	23.7	22.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)