

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: P291725

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291725
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-LD5-43-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

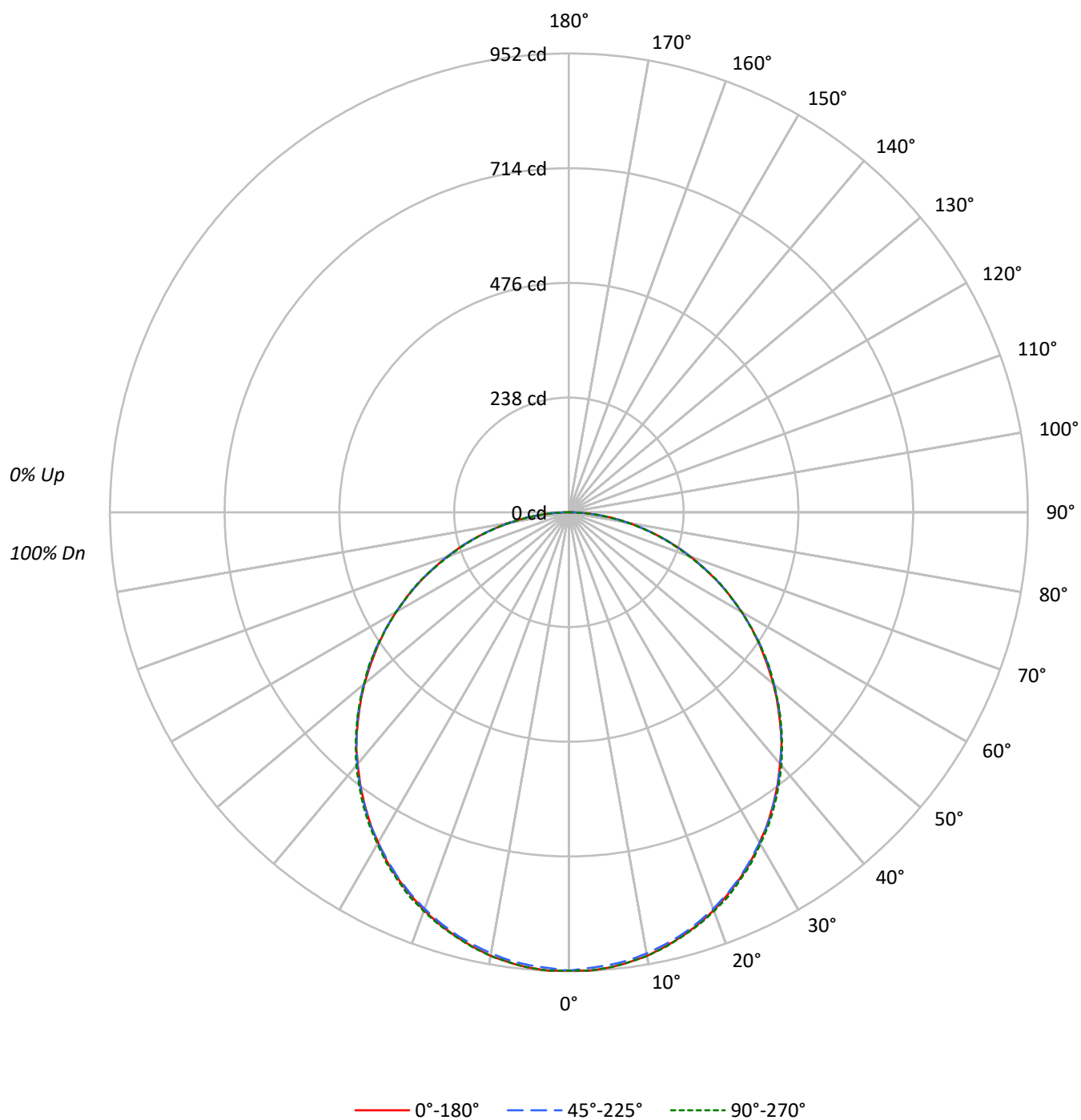
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2559	2559	2559
5°	2562	2548	2562
10°	2553	2539	2553
15°	2535	2526	2538
20°	2516	2507	2521
25°	2491	2485	2498
30°	2458	2458	2468
35°	2427	2430	2441
40°	2394	2397	2409
45°	2358	2365	2368
50°	2318	2325	2321
55°	2271	2283	2280
60°	2227	2227	2227
65°	2175	2175	2186
70°	2106	2106	2086
75°	2034	2024	2015
80°	1940	1926	1912
85°	1825	1797	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.3
10°-20°	256.6	9.4
20°-30°	386.7	14.2
30°-40°	463.5	17.0
40°-50°	479.2	17.6
50°-60°	434.5	16.0
60°-70°	337.7	12.4
70°-80°	206.3	7.6
80°-90°	64.6	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°	733.3	27.0
0°-40°	1196.7	44.0
0°-60°	2110.5	77.6
0°-90°	2719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	948	947	943	947	948	90
15°	910	910	907	911	911	257
25°	839	839	837	842	841	386
35°	739	740	740	743	743	462
45°	620	621	622	622	622	478
55°	484	486	487	487	486	433
65°	342	342	342	340	343	337
75°	196	196	195	194	194	207
85°	59	57	58	56	56	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	951.8	950.9	946.5	950.9	951.8
5°	948.3	947.4	943.1	947.4	948.3
7.5°	942.2	942.2	937.9	942.2	942.2
10°	934.4	933.5	929.2	933.5	934.4
12.5°	923.1	923.1	918.7	923.1	923.9
15°	910.0	910.0	906.6	910.9	910.9
17.5°	895.3	896.1	891.8	897.0	897.0
20°	878.7	877.9	875.3	879.6	880.5
22.5°	858.8	859.6	857.0	862.2	863.1
25°	838.8	838.8	837.0	842.2	841.4
27.5°	817.0	817.0	814.4	818.8	819.6
30°	791.0	791.8	791.0	795.3	794.4
32.5°	766.6	767.5	767.5	769.2	770.1
35°	738.8	739.7	739.7	743.2	743.2
37.5°	711.0	711.0	711.9	714.5	714.5
40°	681.4	682.3	682.3	684.9	685.8
42.5°	652.8	651.0	651.9	654.5	654.5
45°	619.7	620.6	621.5	622.3	622.3
47.5°	586.7	588.4	589.3	590.2	589.3
50°	553.7	555.4	555.4	554.5	554.5
52.5°	518.0	522.4	521.5	521.5	523.2
55°	484.1	485.9	486.7	486.7	485.9
57.5°	450.2	452.0	450.2	451.1	449.4
60°	413.7	414.6	413.7	413.7	413.7
62.5°	378.1	379.0	377.2	377.2	377.2
65°	341.6	341.6	341.6	339.9	343.3
67.5°	303.3	305.1	305.1	306.0	302.5
70°	267.7	268.6	267.7	266.8	265.1
72.5°	232.1	232.9	233.8	230.3	229.5
75°	195.6	195.6	194.7	193.8	193.8
77.5°	159.9	159.9	159.9	158.2	158.2
80°	125.2	126.0	124.3	124.3	123.4
82.5°	91.3	91.3	91.3	90.4	88.7
85°	59.1	57.4	58.2	56.5	56.5
87.5°	26.9	26.9	26.9	25.2	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)