

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: P291564

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291564
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-LD5-40-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3285.1 lumens
Efficiency: N/A
Efficacy: 95.5 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

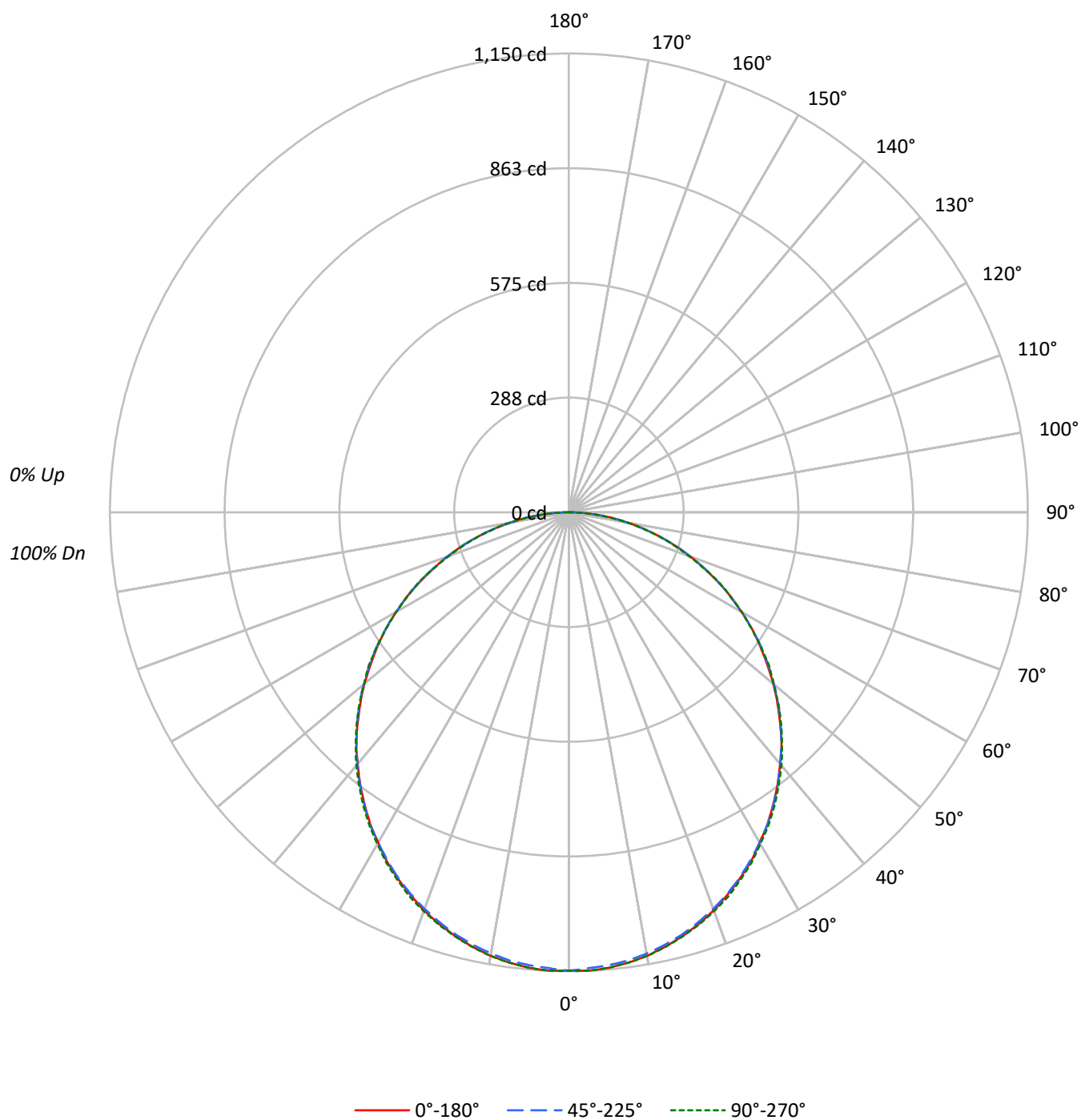
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3091	3091	3091
5°	3095	3078	3095
10°	3085	3067	3085
15°	3063	3051	3066
20°	3040	3028	3046
25°	3009	3003	3018
30°	2969	2969	2982
35°	2932	2936	2950
40°	2892	2896	2910
45°	2849	2857	2861
50°	2800	2809	2805
55°	2744	2759	2754
60°	2690	2690	2690
65°	2628	2628	2641
70°	2544	2544	2520
75°	2457	2445	2435
80°	2343	2328	2311
85°	2205	2174	2109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.3
10°-20°	310.0	9.4
20°-30°	467.2	14.2
30°-40°	559.9	17.0
40°-50°	579.0	17.6
50°-60°	525.0	16.0
60°-70°	408.0	12.4
70°-80°	249.2	7.6
80°-90°	78.0	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°	885.9	27.0
0°-40°	1445.8	44.0
0°-60°	2549.8	77.6
0°-90°	3285.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1146	1145	1139	1145	1146	109
15°	1100	1100	1095	1100	1100	310
25°	1013	1013	1011	1018	1016	467
35°	893	894	894	898	898	559
45°	749	750	751	752	752	578
55°	585	587	588	588	587	523
65°	413	413	413	411	415	408
75°	236	236	235	234	234	250
85°	71	69	70	68	68	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1149.9	1148.8	1143.6	1148.8	1149.9
5°	1145.7	1144.6	1139.4	1144.6	1145.7
7.5°	1138.3	1138.3	1133.1	1138.3	1138.3
10°	1128.9	1127.8	1122.6	1127.8	1128.9
12.5°	1115.2	1115.2	1110.0	1115.2	1116.3
15°	1099.5	1099.5	1095.3	1100.5	1100.5
17.5°	1081.6	1082.7	1077.4	1083.7	1083.7
20°	1061.7	1060.6	1057.5	1062.7	1063.8
22.5°	1037.5	1038.6	1035.4	1041.7	1042.8
25°	1013.4	1013.4	1011.3	1017.6	1016.5
27.5°	987.1	987.1	984.0	989.2	990.3
30°	955.6	956.7	955.6	960.9	959.8
32.5°	926.2	927.3	927.3	929.4	930.4
35°	892.6	893.7	893.7	897.9	897.9
37.5°	859.0	859.0	860.0	863.2	863.2
40°	823.3	824.3	824.3	827.5	828.5
42.5°	788.6	786.5	787.6	790.7	790.7
45°	748.7	749.8	750.8	751.9	751.9
47.5°	708.8	710.9	712.0	713.0	712.0
50°	668.9	671.0	671.0	670.0	670.0
52.5°	625.9	631.1	630.1	630.1	632.2
55°	584.9	587.0	588.1	588.1	587.0
57.5°	544.0	546.1	544.0	545.0	542.9
60°	499.9	500.9	499.9	499.9	499.9
62.5°	456.8	457.9	455.8	455.8	455.8
65°	412.7	412.7	412.7	410.6	414.8
67.5°	366.5	368.6	368.6	369.6	365.4
70°	323.4	324.5	323.4	322.4	320.3
72.5°	280.4	281.4	282.5	278.3	277.2
75°	236.3	236.3	235.2	234.2	234.2
77.5°	193.2	193.2	193.2	191.1	191.1
80°	151.2	152.3	150.2	150.2	149.1
82.5°	110.3	110.3	110.3	109.2	107.1
85°	71.4	69.3	70.4	68.3	68.3
87.5°	32.6	32.6	32.6	30.5	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)