

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: P291620

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291620
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-L82765-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: 3122.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

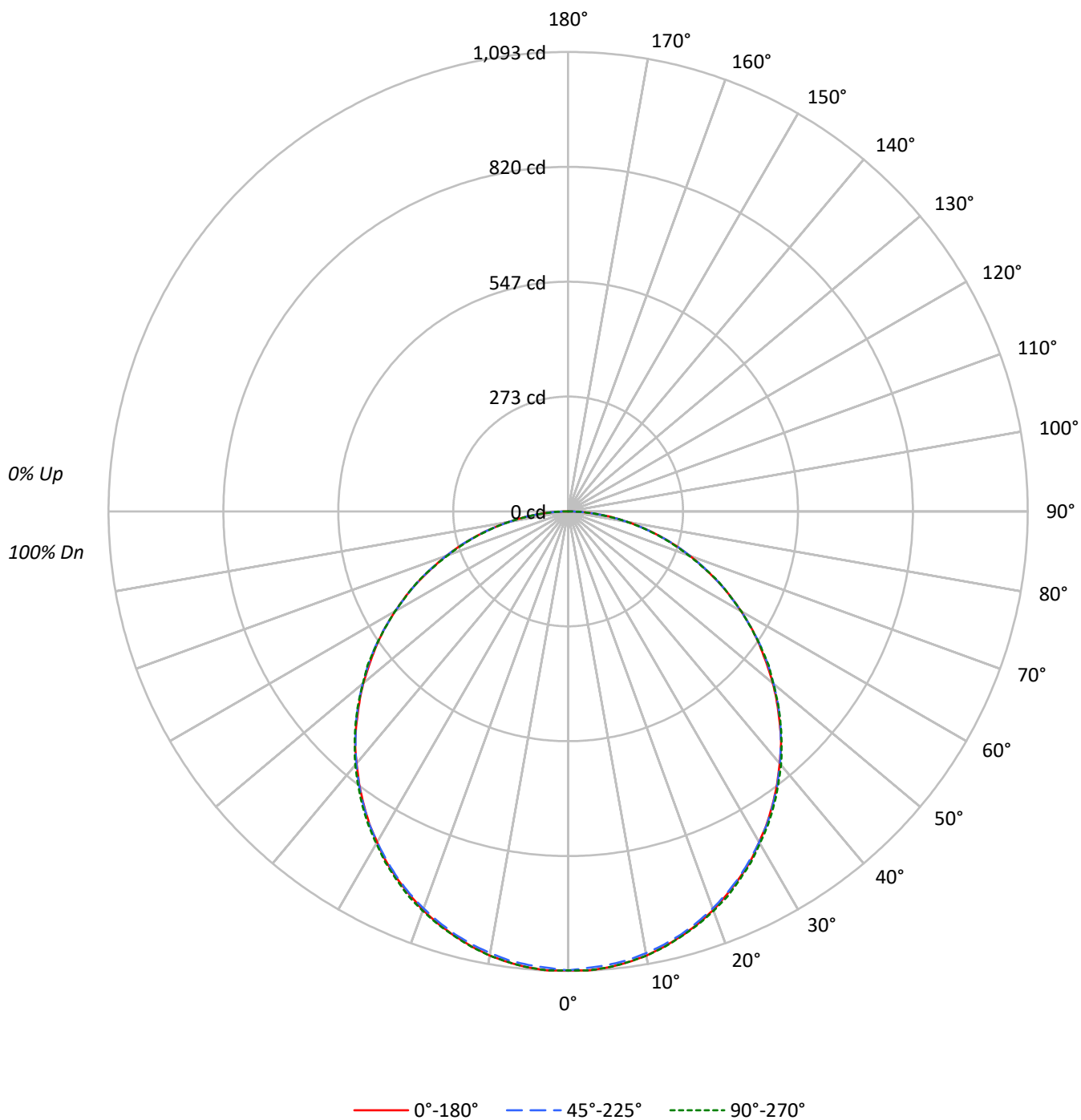
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2938	2938	2938
5°	2941	2925	2941
10°	2932	2915	2932
15°	2911	2900	2914
20°	2889	2878	2895
25°	2860	2854	2869
30°	2822	2822	2834
35°	2787	2790	2803
40°	2748	2752	2766
45°	2708	2716	2719
50°	2661	2670	2665
55°	2608	2622	2617
60°	2557	2557	2557
65°	2497	2497	2510
70°	2419	2419	2395
75°	2335	2325	2314
80°	2227	2211	2196
85°	2096	2066	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.3
10°-20°	294.7	9.4
20°-30°	444.0	14.2
30°-40°	532.1	17.0
40°-50°	550.3	17.6
50°-60°	499.0	16.0
60°-70°	387.7	12.4
70°-80°	236.8	7.6
80°-90°	74.1	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°	841.9	27.0
0°-40°	1374.1	44.0
0°-60°	2423.3	77.6
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1089	1088	1083	1088	1089	103
15°	1045	1045	1041	1046	1046	295
25°	963	963	961	967	966	444
35°	848	849	849	853	853	531
45°	712	713	714	715	715	549
55°	556	558	559	559	558	497
65°	392	392	392	390	394	388
75°	225	225	224	223	223	237
85°	68	66	67	65	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.8	1091.8	1091.8	1091.8	1091.8
2.5°	1092.8	1091.8	1086.8	1091.8	1092.8
5°	1088.8	1087.8	1082.8	1087.8	1088.8
7.5°	1081.8	1081.8	1076.9	1081.8	1081.8
10°	1072.9	1071.9	1066.9	1071.9	1072.9
12.5°	1059.9	1059.9	1054.9	1059.9	1060.9
15°	1044.9	1044.9	1040.9	1045.9	1045.9
17.5°	1028.0	1029.0	1024.0	1029.9	1029.9
20°	1009.0	1008.0	1005.0	1010.0	1011.0
22.5°	986.0	987.0	984.0	990.0	991.0
25°	963.1	963.1	961.1	967.1	966.1
27.5°	938.1	938.1	935.1	940.1	941.1
30°	908.2	909.2	908.2	913.2	912.2
32.5°	880.2	881.2	881.2	883.2	884.2
35°	848.3	849.3	849.3	853.3	853.3
37.5°	816.4	816.4	817.4	820.4	820.4
40°	782.4	783.4	783.4	786.4	787.4
42.5°	749.5	747.5	748.5	751.5	751.5
45°	711.6	712.6	713.6	714.6	714.6
47.5°	673.7	675.7	676.7	677.7	676.7
50°	635.7	637.7	637.7	636.7	636.7
52.5°	594.8	599.8	598.8	598.8	600.8
55°	555.9	557.9	558.9	558.9	557.9
57.5°	517.0	519.0	517.0	518.0	516.0
60°	475.1	476.1	475.1	475.1	475.1
62.5°	434.1	435.1	433.1	433.1	433.1
65°	392.2	392.2	392.2	390.2	394.2
67.5°	348.3	350.3	350.3	351.3	347.3
70°	307.4	308.4	307.4	306.4	304.4
72.5°	266.5	267.5	268.5	264.5	263.5
75°	224.6	224.6	223.6	222.6	222.6
77.5°	183.6	183.6	183.6	181.6	181.6
80°	143.7	144.7	142.7	142.7	141.7
82.5°	104.8	104.8	104.8	103.8	101.8
85°	67.9	65.9	66.9	64.9	64.9
87.5°	30.9	30.9	30.9	28.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)