

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: P291723

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291723
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-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: 2969.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

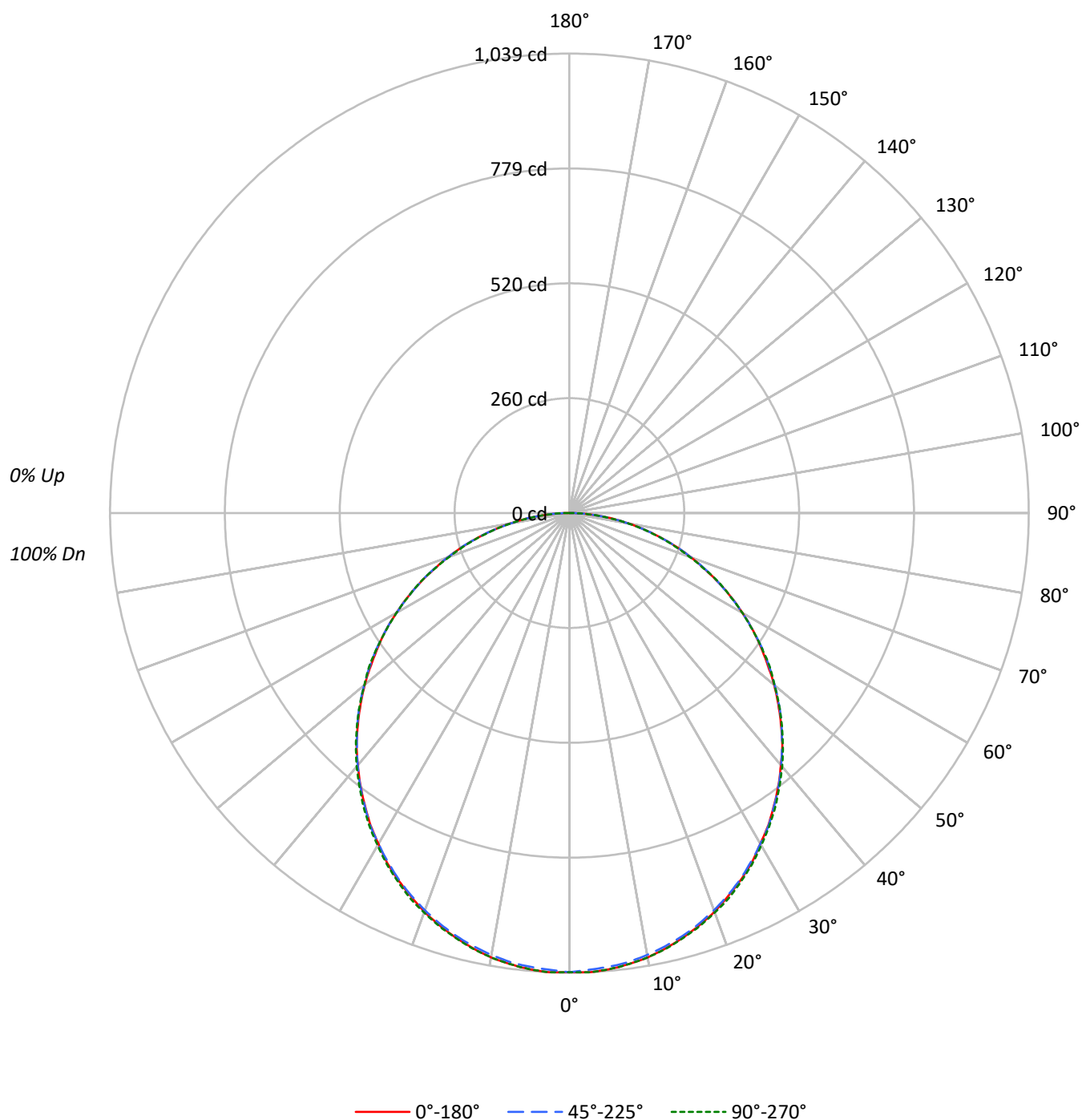
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2794	2794	2794
5°	2797	2782	2797
10°	2788	2772	2788
15°	2768	2758	2771
20°	2748	2737	2753
25°	2719	2714	2728
30°	2684	2684	2696
35°	2650	2653	2666
40°	2614	2617	2630
45°	2575	2582	2586
50°	2531	2539	2535
55°	2480	2494	2489
60°	2432	2432	2432
65°	2375	2375	2387
70°	2300	2300	2278
75°	2220	2210	2200
80°	2118	2103	2089
85°	1991	1964	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.3
10°-20°	280.2	9.4
20°-30°	422.3	14.2
30°-40°	506.1	17.0
40°-50°	523.3	17.6
50°-60°	474.5	16.0
60°-70°	368.7	12.4
70°-80°	225.2	7.6
80°-90°	70.5	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°	800.7	27.0
0°-40°	1306.8	44.0
0°-60°	2304.5	77.6
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1036	1034	1030	1034	1036	98
15°	994	994	990	995	995	280
25°	916	916	914	920	919	422
35°	807	808	808	812	812	505
45°	677	678	679	680	680	522
55°	529	530	532	532	530	473
65°	373	373	373	371	375	369
75°	214	214	213	212	212	226
85°	64	63	64	62	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1039.3	1038.3	1033.6	1038.3	1039.3
5°	1035.5	1034.5	1029.8	1034.5	1035.5
7.5°	1028.8	1028.8	1024.1	1028.8	1028.8
10°	1020.3	1019.3	1014.6	1019.3	1020.3
12.5°	1007.9	1007.9	1003.2	1007.9	1008.9
15°	993.7	993.7	989.9	994.7	994.7
17.5°	977.6	978.5	973.8	979.5	979.5
20°	959.5	958.6	955.7	960.5	961.4
22.5°	937.7	938.7	935.8	941.5	942.5
25°	915.9	915.9	914.0	919.7	918.7
27.5°	892.2	892.2	889.3	894.1	895.0
30°	863.7	864.6	863.7	868.4	867.5
32.5°	837.1	838.1	838.1	840.0	840.9
35°	806.7	807.7	807.7	811.5	811.5
37.5°	776.4	776.4	777.3	780.2	780.2
40°	744.1	745.0	745.0	747.9	748.8
42.5°	712.8	710.9	711.8	714.7	714.7
45°	676.7	677.7	678.6	679.6	679.6
47.5°	640.6	642.5	643.5	644.4	643.5
50°	604.6	606.5	606.5	605.5	605.5
52.5°	565.7	570.4	569.5	569.5	571.4
55°	528.7	530.5	531.5	531.5	530.5
57.5°	491.6	493.5	491.6	492.6	490.7
60°	451.8	452.7	451.8	451.8	451.8
62.5°	412.9	413.8	411.9	411.9	411.9
65°	373.0	373.0	373.0	371.1	374.9
67.5°	331.2	333.1	333.1	334.1	330.3
70°	292.3	293.3	292.3	291.4	289.5
72.5°	253.4	254.4	255.3	251.5	250.6
75°	213.5	213.5	212.6	211.6	211.6
77.5°	174.6	174.6	174.6	172.7	172.7
80°	136.7	137.6	135.7	135.7	134.8
82.5°	99.7	99.7	99.7	98.7	96.8
85°	64.5	62.6	63.6	61.7	61.7
87.5°	29.4	29.4	29.4	27.5	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)