

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: P290852

Luminaire Tested: **14GR-LD5-20-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

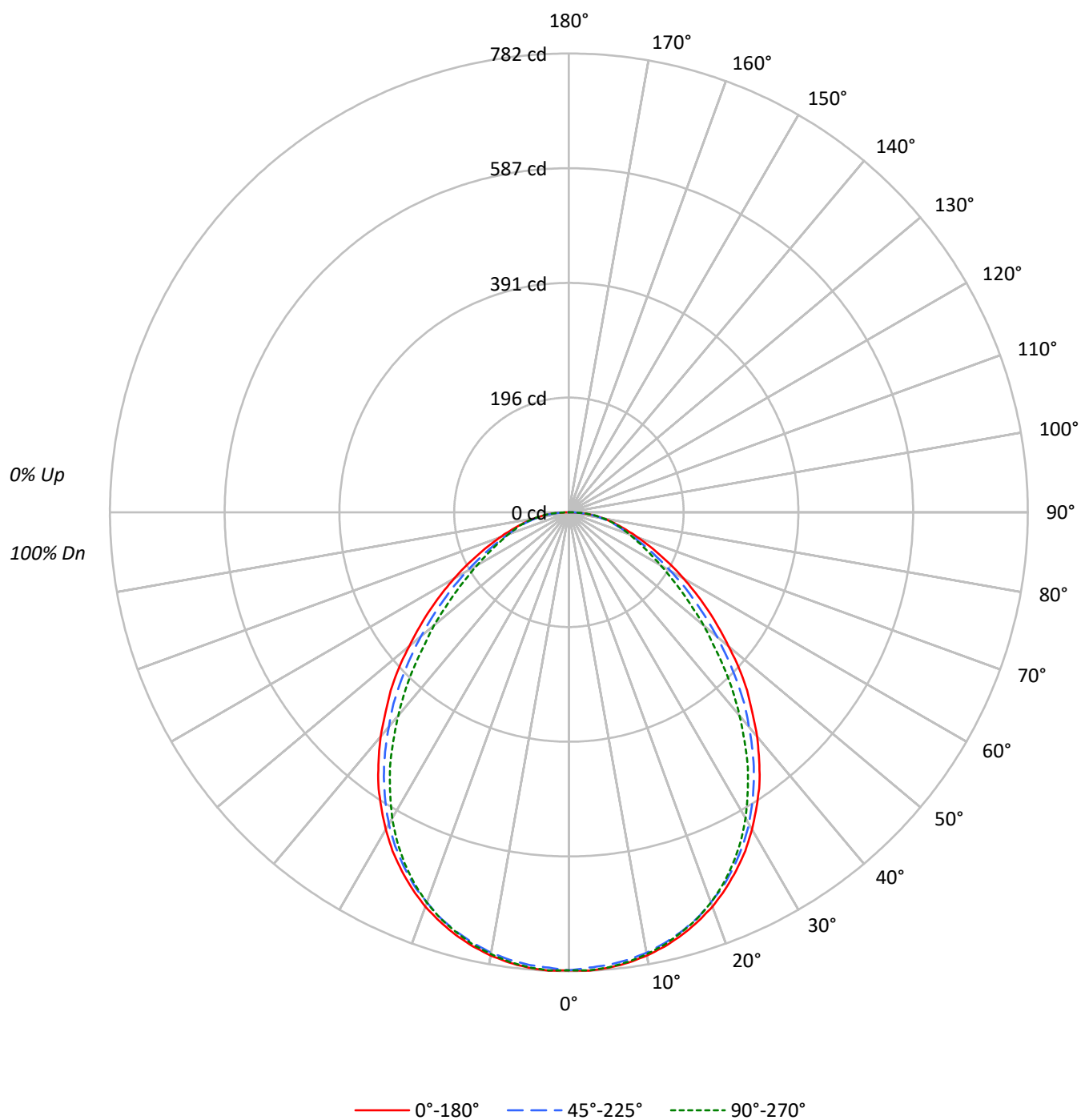
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	58			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	60	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			51	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2100	2100	2100
5°	2105	2092	2103
10°	2096	2082	2089
15°	2077	2061	2064
20°	2048	2025	2027
25°	2001	1977	1963
30°	1940	1906	1871
35°	1860	1806	1747
40°	1752	1677	1589
45°	1634	1535	1421
50°	1486	1377	1255
55°	1353	1221	1094
60°	1213	1076	971
65°	1081	958	893
70°	983	873	864
75°	919	850	893
80°	924	879	930
85°	966	902	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	4.2
10°-20°	209.2	11.9
20°-30°	306.8	17.5
30°-40°	342.4	19.5
40°-50°	310.0	17.7
50°-60°	234.1	13.4
60°-70°	153.0	8.7
70°-80°	89.9	5.1
80°-90°	32.9	1.9
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°	589.8	33.7
0°-40°	932.2	53.2
0°-60°	1476.2	84.3
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	779	778	774	779	778	74
15°	746	744	740	744	741	210
25°	674	672	666	664	661	310
35°	566	561	550	538	532	353
45°	429	423	403	382	373	330
55°	288	282	260	240	233	258
65°	170	164	150	142	140	170
75°	88	86	82	84	86	95
85°	31	30	29	33	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.5	780.5	780.5	780.5	780.5
2.5°	781.7	780.5	776.8	781.7	781.3
5°	779.3	777.6	774.3	778.9	778.4
7.5°	774.3	772.7	769.4	773.5	772.7
10°	766.9	765.3	762.0	766.5	764.5
12.5°	757.5	755.8	752.1	756.2	754.6
15°	745.6	744.3	739.8	743.9	741.0
17.5°	731.2	729.1	725.8	728.3	726.2
20°	715.1	712.7	707.3	709.8	707.7
22.5°	695.8	692.5	688.8	688.8	685.9
25°	674.0	671.5	665.8	664.5	661.2
27.5°	650.6	648.5	641.1	639.0	633.3
30°	624.2	621.4	613.5	607.0	602.0
32.5°	595.0	593.0	582.3	573.7	566.7
35°	566.3	561.3	549.8	537.5	531.7
37.5°	532.5	528.8	514.4	499.2	491.4
40°	498.8	494.3	477.4	460.6	452.3
42.5°	462.2	458.1	442.1	421.9	413.3
45°	429.3	422.7	403.4	381.6	373.4
47.5°	393.1	386.1	365.6	342.6	333.1
50°	354.9	350.4	329.0	306.8	299.8
52.5°	320.8	313.8	293.6	271.8	264.4
55°	288.3	281.7	260.3	239.7	233.2
57.5°	255.8	248.4	229.9	211.4	204.8
60°	225.4	217.9	199.9	184.6	180.5
62.5°	197.8	189.6	173.5	161.6	158.7
65°	169.8	164.5	150.5	141.9	140.2
67.5°	146.4	139.8	128.7	124.6	123.8
70°	125.0	120.5	111.0	109.8	109.8
72.5°	105.7	102.0	95.0	95.8	97.0
75°	88.4	85.9	81.8	83.5	85.9
77.5°	73.6	71.1	68.7	71.1	72.8
80°	59.6	57.2	56.7	58.8	60.0
82.5°	44.8	42.8	43.2	46.5	47.7
85°	31.3	30.0	29.2	32.9	33.3
87.5°	16.0	15.2	14.8	17.7	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)