

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: P290691

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

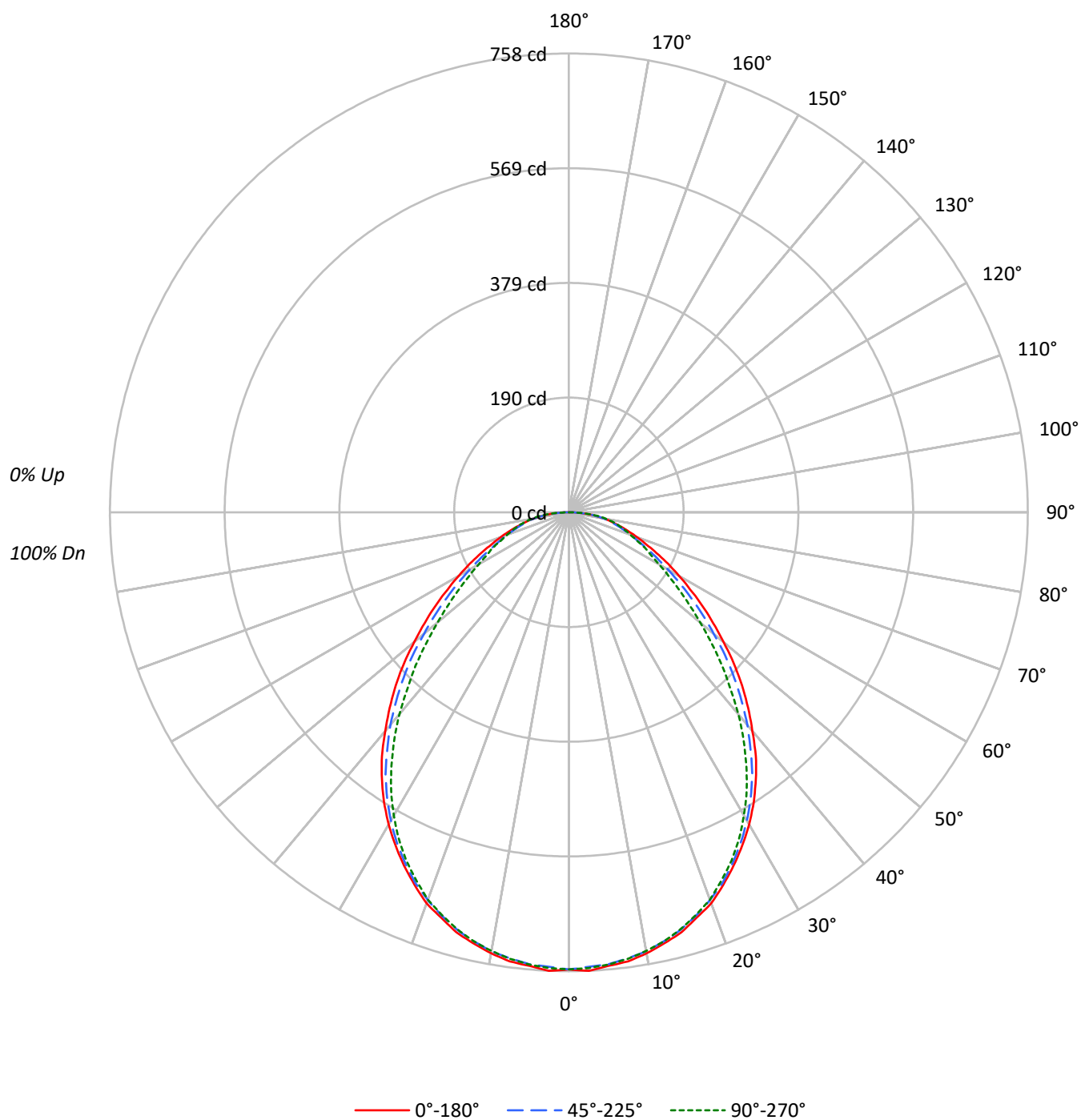
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2032	2032	2032
5°	2031	2024	2025
10°	2021	2012	2011
15°	2001	1989	1986
20°	1968	1952	1950
25°	1912	1899	1885
30°	1850	1827	1796
35°	1769	1735	1678
40°	1656	1610	1531
45°	1538	1469	1362
50°	1395	1308	1186
55°	1262	1156	1036
60°	1133	1013	924
65°	1017	904	884
70°	939	842	851
75°	896	844	892
80°	907	900	972
85°	939	926	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	4.2
10°-20°	201.5	12.0
20°-30°	294.3	17.5
30°-40°	327.9	19.5
40°-50°	295.5	17.6
50°-60°	220.9	13.2
60°-70°	145.7	8.7
70°-80°	88.9	5.3
80°-90°	33.0	2.0
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°	567.1	33.8
0°-40°	895.0	53.3
0°-60°	1411.4	84.1
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	752	751	749	753	750	71
15°	718	715	714	718	713	202
25°	644	642	640	641	635	296
35°	538	534	528	519	511	336
45°	404	400	386	368	358	311
55°	269	265	246	226	221	241
65°	160	155	142	136	139	160
75°	86	85	81	84	86	92
85°	30	29	30	33	34	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.1	755.1	755.1	755.1	755.1
2.5°	758.2	754.7	751.6	756.2	753.5
5°	752.0	751.2	749.3	753.2	749.7
7.5°	748.2	745.5	743.2	747.8	743.9
10°	739.7	738.2	736.2	740.1	735.8
12.5°	729.3	727.8	725.8	730.5	725.8
15°	718.1	715.4	713.9	718.1	712.8
17.5°	702.0	700.8	698.5	702.7	697.4
20°	687.4	683.1	681.6	684.7	680.8
22.5°	666.2	663.1	662.7	664.6	658.1
25°	643.9	641.6	639.6	640.8	635.0
27.5°	620.4	617.3	615.0	614.6	608.5
30°	595.4	591.5	588.1	585.0	578.1
32.5°	568.0	563.4	558.8	553.8	546.5
35°	538.4	533.8	528.0	518.8	510.7
37.5°	507.2	501.9	492.6	481.8	473.8
40°	471.4	468.8	458.4	444.5	435.7
42.5°	438.0	434.9	421.8	406.4	394.5
45°	404.1	399.9	386.0	368.3	357.9
47.5°	369.5	365.2	349.8	327.9	318.7
50°	333.3	331.0	312.5	292.5	283.3
52.5°	300.2	297.5	278.6	258.6	250.2
55°	269.0	264.8	246.3	225.9	220.9
57.5°	237.8	233.2	215.9	198.6	195.1
60°	210.5	204.7	188.2	174.7	171.6
62.5°	184.7	178.2	164.3	153.9	152.4
65°	159.7	154.7	142.0	136.2	138.9
67.5°	138.2	133.2	123.9	121.6	120.8
70°	119.3	114.7	107.0	107.8	108.1
72.5°	102.0	99.3	93.5	95.4	97.0
75°	86.2	84.7	81.2	83.9	85.8
77.5°	72.0	70.8	69.3	71.6	74.7
80°	58.5	57.7	58.1	59.7	62.7
82.5°	45.0	43.5	44.6	47.7	49.6
85°	30.4	29.2	30.0	33.1	33.5
87.5°	14.2	14.2	13.9	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)