

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: P290794

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290794
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-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

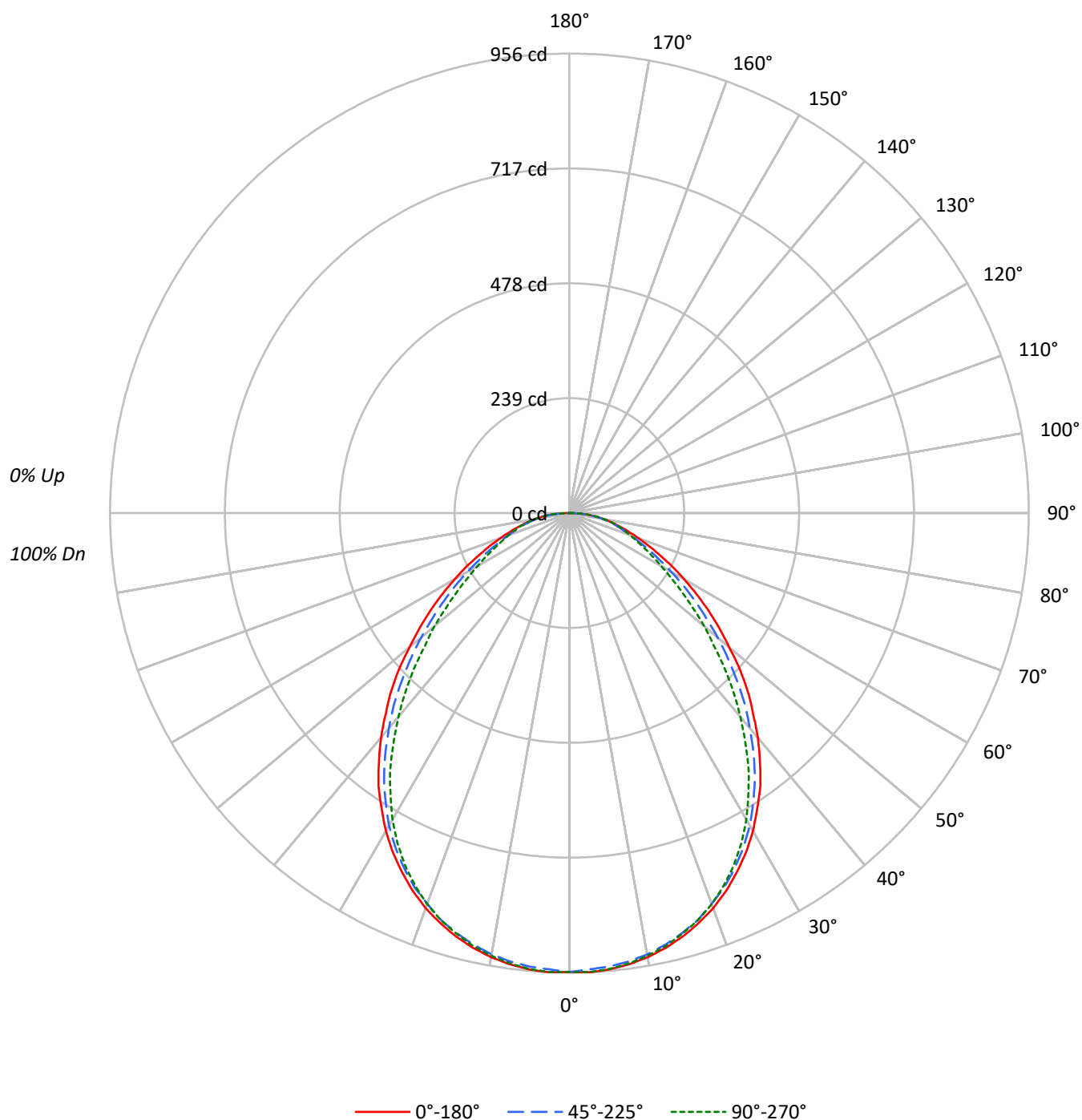
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290794

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P290794

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2569	2569	2569
5°	2575	2558	2572
10°	2563	2547	2555
15°	2540	2521	2525
20°	2505	2478	2479
25°	2448	2418	2401
30°	2373	2332	2288
35°	2275	2209	2137
40°	2143	2051	1944
45°	1998	1878	1738
50°	1817	1685	1535
55°	1654	1494	1338
60°	1483	1316	1188
65°	1323	1172	1092
70°	1203	1068	1057
75°	1124	1041	1093
80°	1130	1075	1137
85°	1179	1102	1257



TEST NUMBER: P290794

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	4.2
10°-20°	255.9	11.9
20°-30°	375.2	17.5
30°-40°	418.8	19.5
40°-50°	379.2	17.7
50°-60°	286.3	13.4
60°-70°	187.1	8.7
70°-80°	109.9	5.1
80°-90°	40.2	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°	721.4	33.7
0°-40°	1140.2	53.2
0°-60°	1805.7	84.3
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	953	951	947	953	952	90
15°	912	910	905	910	906	257
25°	824	821	814	813	809	379
35°	693	687	672	657	650	431
45°	525	517	493	467	457	403
55°	353	345	318	293	285	315
65°	208	201	184	174	172	208
75°	108	105	100	102	105	116
85°	38	37	36	40	41	41
90°	0	0	0	0	0	



TEST NUMBER: P290794

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.7	954.7	954.7	954.7	954.7
2.5°	956.2	954.7	950.2	956.2	955.7
5°	953.2	951.2	947.1	952.7	952.2
7.5°	947.1	945.1	941.1	946.1	945.1
10°	938.1	936.1	932.1	937.6	935.1
12.5°	926.5	924.5	920.0	925.0	923.0
15°	911.9	910.4	904.9	909.9	906.4
17.5°	894.3	891.8	887.8	890.8	888.3
20°	874.7	871.7	865.2	868.2	865.7
22.5°	851.1	847.1	842.5	842.5	839.0
25°	824.4	821.4	814.4	812.8	808.8
27.5°	795.7	793.2	784.2	781.7	774.6
30°	763.6	760.0	750.5	742.4	736.4
32.5°	727.8	725.3	712.2	701.7	693.1
35°	692.6	686.6	672.5	657.4	650.4
37.5°	651.4	646.9	629.3	610.6	601.1
40°	610.1	604.6	584.0	563.4	553.3
42.5°	565.4	560.3	540.7	516.1	505.5
45°	525.1	517.1	493.4	466.8	456.7
47.5°	480.9	472.3	447.2	419.0	407.4
50°	434.1	428.6	402.4	375.2	366.7
52.5°	392.3	383.8	359.1	332.5	323.4
55°	352.6	344.6	318.4	293.2	285.2
57.5°	312.9	303.8	281.2	258.5	250.5
60°	275.6	266.6	244.5	225.8	220.8
62.5°	241.9	231.9	212.3	197.7	194.2
65°	207.7	201.2	184.1	173.5	171.5
67.5°	179.1	171.0	157.4	152.4	151.4
70°	152.9	147.4	135.8	134.3	134.3
72.5°	129.3	124.7	116.2	117.2	118.7
75°	108.1	105.1	100.1	102.1	105.1
77.5°	90.0	87.0	84.0	87.0	89.0
80°	72.9	69.9	69.4	71.9	73.4
82.5°	54.8	52.3	52.8	56.8	58.3
85°	38.2	36.7	35.7	40.2	40.7
87.5°	19.6	18.6	18.1	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)