

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: P290753

Luminaire Tested: **14GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290753
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

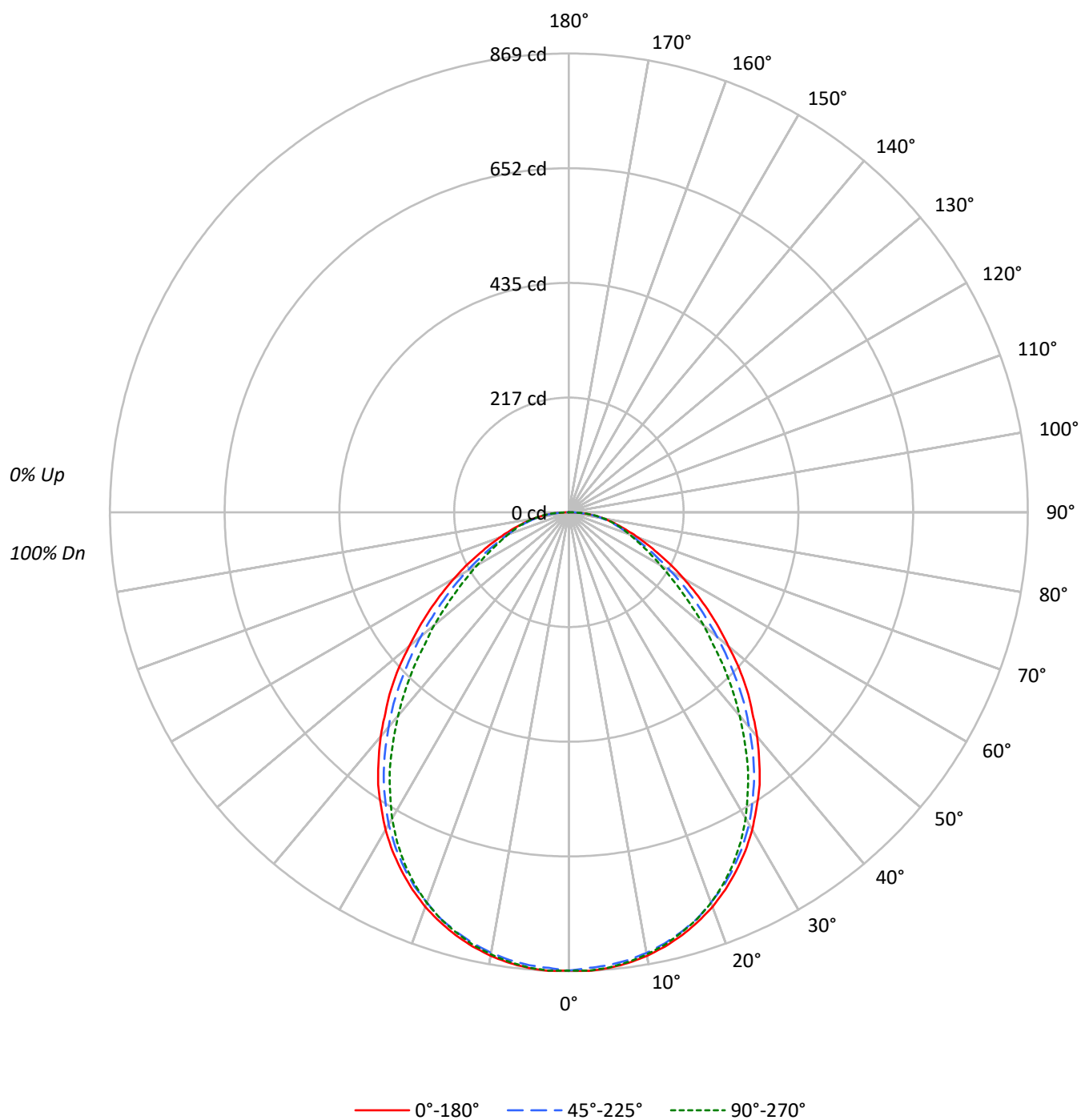
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290753

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P290753

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K

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°	2335	2335	2335
5°	2340	2326	2338
10°	2330	2315	2323
15°	2310	2292	2295
20°	2277	2252	2253
25°	2225	2198	2183
30°	2157	2120	2080
35°	2068	2008	1942
40°	1948	1865	1767
45°	1816	1707	1580
50°	1652	1531	1395
55°	1504	1358	1216
60°	1349	1196	1080
65°	1202	1065	993
70°	1094	972	961
75°	1022	946	994
80°	1027	978	1035
85°	1071	1003	1142



TEST NUMBER: P290753

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	4.2
10°-20°	232.6	11.9
20°-30°	341.1	17.5
30°-40°	380.7	19.5
40°-50°	344.7	17.7
50°-60°	260.2	13.4
60°-70°	170.1	8.7
70°-80°	99.9	5.1
80°-90°	36.6	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°	655.8	33.7
0°-40°	1036.5	53.2
0°-60°	1641.4	84.3
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	866	865	861	866	866	82
15°	829	828	823	827	824	234
25°	749	747	740	739	735	345
35°	630	624	611	598	591	392
45°	477	470	448	424	415	367
55°	320	313	289	267	259	287
65°	189	183	167	158	156	189
75°	98	96	91	93	96	106
85°	35	33	32	37	37	37
90°	0	0	0	0	0	



TEST NUMBER: P290753

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.8	867.8	867.8	867.8	867.8
2.5°	869.2	867.8	863.7	869.2	868.7
5°	866.4	864.6	861.0	866.0	865.5
7.5°	861.0	859.1	855.5	860.0	859.1
10°	852.7	850.9	847.2	852.3	850.0
12.5°	842.2	840.4	836.3	840.8	839.0
15°	829.0	827.6	822.6	827.1	823.9
17.5°	813.0	810.7	807.0	809.8	807.5
20°	795.1	792.4	786.4	789.2	786.9
22.5°	773.6	770.0	765.9	765.9	762.7
25°	749.4	746.7	740.3	738.9	735.2
27.5°	723.3	721.1	712.8	710.5	704.1
30°	694.1	690.9	682.2	674.9	669.4
32.5°	661.6	659.3	647.4	637.8	630.1
35°	629.6	624.1	611.3	597.6	591.2
37.5°	592.1	588.0	572.0	555.1	546.4
40°	554.6	549.6	530.8	512.1	503.0
42.5°	513.9	509.4	491.5	469.1	459.5
45°	477.3	470.0	448.5	424.3	415.2
47.5°	437.1	429.3	406.5	380.9	370.4
50°	394.6	389.6	365.8	341.1	333.3
52.5°	356.6	348.9	326.5	302.2	294.0
55°	320.5	313.2	289.4	266.6	259.2
57.5°	284.4	276.2	255.6	235.0	227.7
60°	250.6	242.3	222.2	205.3	200.7
62.5°	219.9	210.8	193.0	179.7	176.5
65°	188.8	182.9	167.3	157.7	155.9
67.5°	162.8	155.5	143.1	138.5	137.6
70°	139.0	134.0	123.5	122.1	122.1
72.5°	117.5	113.4	105.6	106.5	107.9
75°	98.3	95.6	91.0	92.8	95.6
77.5°	81.8	79.1	76.4	79.1	80.9
80°	66.3	63.6	63.1	65.4	66.8
82.5°	49.8	47.6	48.0	51.7	53.0
85°	34.7	33.4	32.5	36.6	37.0
87.5°	17.8	16.9	16.5	19.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)