

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: P290802

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290802
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-LD5-24-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

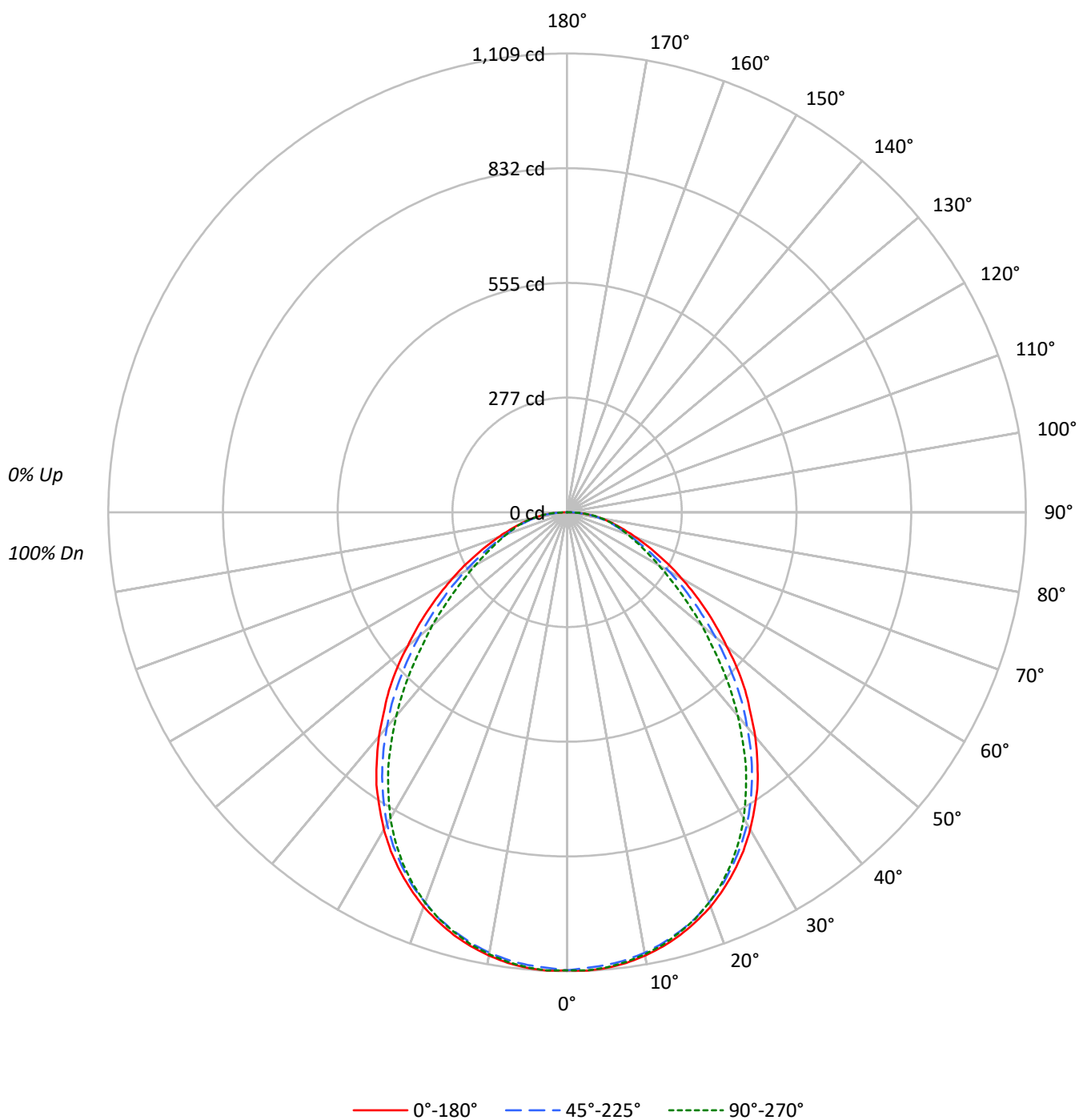
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290802

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P290802

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K

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°	2979	2979	2979
5°	2986	2967	2982
10°	2972	2953	2963
15°	2946	2923	2928
20°	2905	2873	2875
25°	2839	2804	2785
30°	2751	2704	2653
35°	2639	2562	2478
40°	2485	2379	2254
45°	2317	2178	2015
50°	2107	1953	1780
55°	1918	1732	1552
60°	1720	1526	1378
65°	1534	1359	1266
70°	1395	1239	1225
75°	1304	1207	1267
80°	1311	1247	1320
85°	1368	1278	1457



TEST NUMBER: P290802

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.2
10°-20°	296.8	11.9
20°-30°	435.1	17.5
30°-40°	485.6	19.5
40°-50°	439.7	17.7
50°-60°	332.0	13.4
60°-70°	217.0	8.7
70°-80°	127.5	5.1
80°-90°	46.7	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°	836.6	33.7
0°-40°	1322.2	53.2
0°-60°	2093.8	84.3
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1105	1103	1098	1105	1104	105
15°	1058	1056	1049	1055	1051	298
25°	956	952	944	943	938	440
35°	803	796	780	762	754	500
45°	609	600	572	541	530	468
55°	409	400	369	340	331	366
65°	241	233	214	201	199	242
75°	125	122	116	118	122	135
85°	44	43	41	47	47	47
90°	0	0	0	0	0	



TEST NUMBER: P290802

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1108.8	1107.1	1101.8	1108.8	1108.2
5°	1105.3	1103.0	1098.3	1104.7	1104.1
7.5°	1098.3	1096.0	1091.3	1097.1	1096.0
10°	1087.8	1085.5	1080.8	1087.2	1084.3
12.5°	1074.4	1072.1	1066.8	1072.6	1070.3
15°	1057.5	1055.7	1049.3	1055.1	1051.1
17.5°	1037.1	1034.1	1029.5	1033.0	1030.1
20°	1014.3	1010.8	1003.2	1006.7	1003.8
22.5°	986.9	982.2	977.0	977.0	972.9
25°	956.0	952.5	944.3	942.6	937.9
27.5°	922.7	919.8	909.3	906.4	898.2
30°	885.4	881.3	870.2	860.9	853.9
32.5°	844.0	841.1	825.9	813.7	803.7
35°	803.2	796.2	779.8	762.3	754.2
37.5°	755.3	750.1	729.7	708.1	697.0
40°	707.5	701.1	677.2	653.3	641.6
42.5°	655.6	649.8	627.0	598.4	586.2
45°	608.9	599.6	572.2	541.3	529.6
47.5°	557.6	547.7	518.5	485.9	472.5
50°	503.4	496.9	466.6	435.1	425.2
52.5°	455.0	445.0	416.5	385.5	375.0
55°	408.9	399.5	369.2	340.0	330.7
57.5°	362.8	352.3	326.0	299.8	290.5
60°	319.6	309.1	283.5	261.9	256.1
62.5°	280.6	268.9	246.1	229.2	225.1
65°	240.9	233.3	213.5	201.2	198.9
67.5°	207.6	198.3	182.6	176.7	175.6
70°	177.3	170.9	157.5	155.7	155.7
72.5°	149.9	144.7	134.7	135.9	137.7
75°	125.4	121.9	116.1	118.4	121.9
77.5°	104.4	100.9	97.4	100.9	103.2
80°	84.6	81.1	80.5	83.4	85.2
82.5°	63.6	60.7	61.2	65.9	67.7
85°	44.3	42.6	41.4	46.7	47.2
87.5°	22.7	21.6	21.0	25.1	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)