

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: P290905

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290905
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-LD5-28-F125-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2348.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

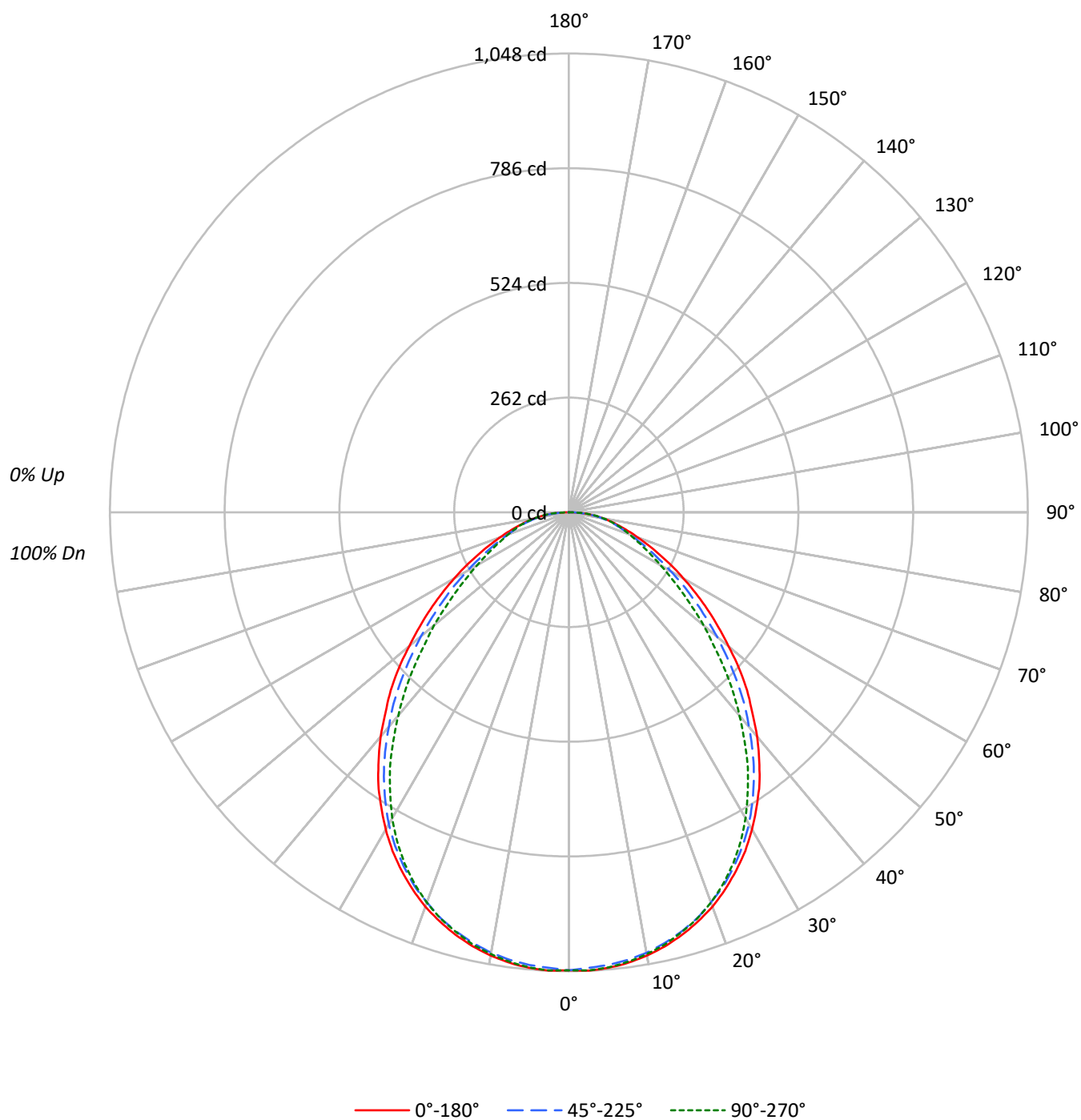
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290905

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P290905

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-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°	2815	2815	2815
5°	2821	2803	2818
10°	2808	2790	2799
15°	2784	2762	2767
20°	2745	2714	2716
25°	2682	2649	2631
30°	2600	2555	2507
35°	2493	2420	2341
40°	2348	2248	2129
45°	2190	2057	1904
50°	1991	1846	1682
55°	1812	1637	1466
60°	1625	1441	1302
65°	1449	1284	1196
70°	1318	1171	1157
75°	1232	1141	1198
80°	1238	1179	1247
85°	1294	1207	1377



TEST NUMBER: P290905

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	4.2
10°-20°	280.4	11.9
20°-30°	411.1	17.5
30°-40°	458.9	19.5
40°-50°	415.4	17.7
50°-60°	313.7	13.4
60°-70°	205.1	8.7
70°-80°	120.4	5.1
80°-90°	44.1	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°	790.4	33.7
0°-40°	1249.3	53.2
0°-60°	1978.4	84.3
0°-90°	2348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1042	1038	1044	1043	99
15°	999	998	992	997	993	282
25°	903	900	892	891	886	416
35°	759	752	737	720	713	473
45°	575	566	541	511	500	442
55°	386	378	349	321	312	346
65°	228	220	202	190	188	228
75°	118	115	110	112	115	127
85°	42	40	39	44	45	44
90°	0	0	0	0	0	



TEST NUMBER: P290905

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.0	1046.0	1046.0	1046.0	1046.0
2.5°	1047.7	1046.0	1041.1	1047.7	1047.1
5°	1044.4	1042.2	1037.8	1043.8	1043.3
7.5°	1037.8	1035.5	1031.1	1036.7	1035.5
10°	1027.8	1025.6	1021.2	1027.3	1024.5
12.5°	1015.2	1013.0	1008.0	1013.5	1011.3
15°	999.2	997.5	991.5	997.0	993.1
17.5°	979.9	977.1	972.7	976.0	973.3
20°	958.4	955.1	947.9	951.2	948.5
22.5°	932.5	928.1	923.1	923.1	919.3
25°	903.3	900.0	892.3	890.6	886.2
27.5°	871.9	869.1	859.2	856.4	848.7
30°	836.6	832.7	822.3	813.4	806.8
32.5°	797.5	794.7	780.4	768.8	759.4
35°	758.9	752.3	736.8	720.3	712.6
37.5°	713.7	708.7	689.4	669.1	658.6
40°	668.5	662.4	639.8	617.3	606.2
42.5°	619.5	613.9	592.5	565.4	553.9
45°	575.4	566.5	540.6	511.4	500.4
47.5°	526.9	517.5	489.9	459.1	446.4
50°	475.6	469.6	440.9	411.1	401.8
52.5°	429.9	420.5	393.5	364.3	354.4
55°	386.3	377.5	348.9	321.3	312.5
57.5°	342.8	332.9	308.1	283.3	274.5
60°	302.0	292.1	267.8	247.5	241.9
62.5°	265.1	254.1	232.6	216.6	212.7
65°	227.6	220.4	201.7	190.1	187.9
67.5°	196.2	187.4	172.5	167.0	165.9
70°	167.5	161.5	148.8	147.1	147.1
72.5°	141.6	136.7	127.3	128.4	130.1
75°	118.5	115.2	109.7	111.9	115.2
77.5°	98.6	95.3	92.0	95.3	97.5
80°	79.9	76.6	76.1	78.8	80.5
82.5°	60.1	57.3	57.9	62.3	63.9
85°	41.9	40.2	39.1	44.1	44.6
87.5°	21.5	20.4	19.8	23.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)