

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: P290929

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290929
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-LD5-36-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

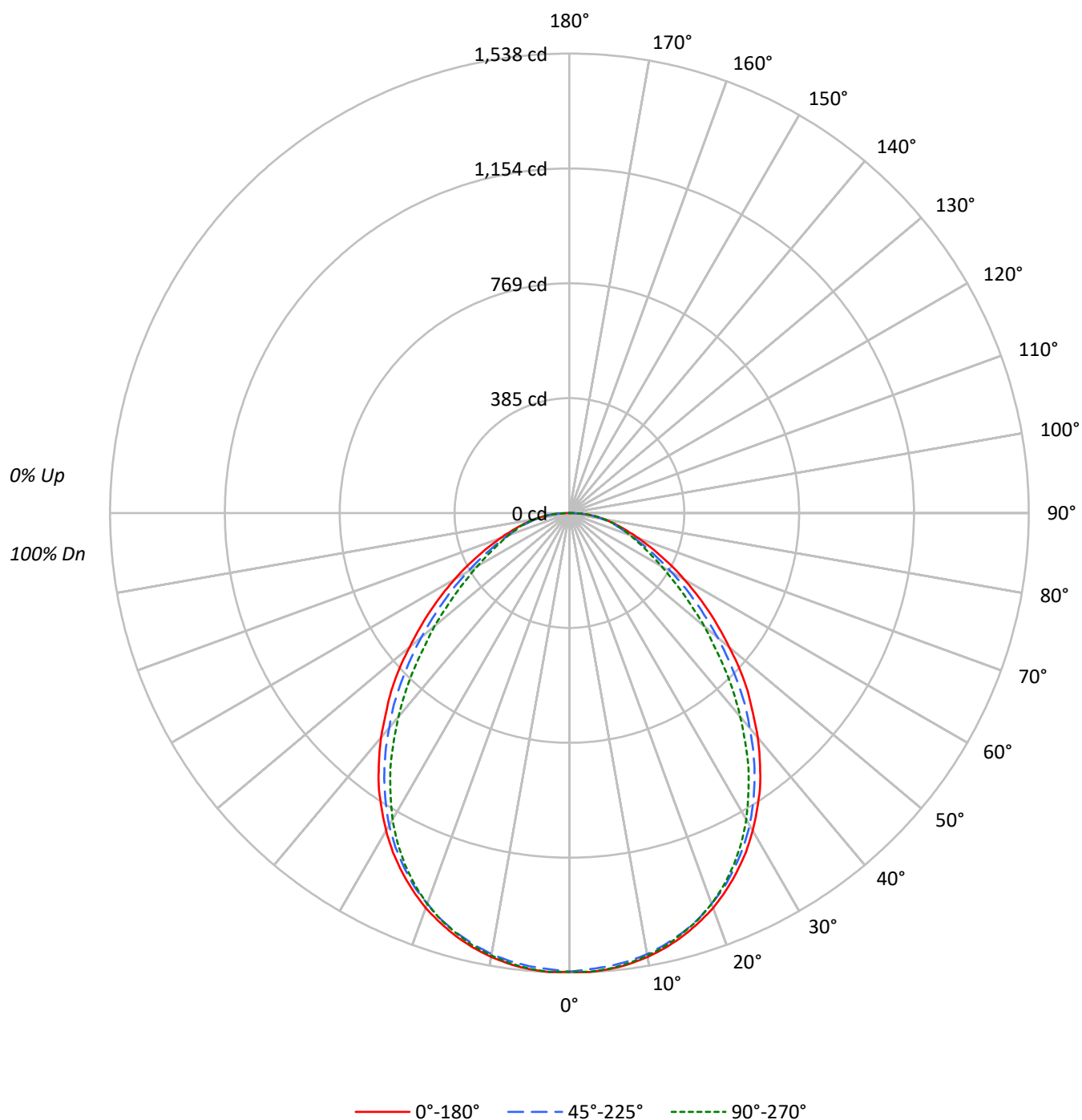
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290929

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P290929

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K

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°	4131	4131	4131
5°	4140	4114	4136
10°	4122	4095	4109
15°	4085	4054	4060
20°	4028	3984	3986
25°	3936	3888	3862
30°	3815	3750	3679
35°	3659	3552	3436
40°	3446	3299	3125
45°	3213	3020	2795
50°	2922	2709	2468
55°	2660	2402	2152
60°	2385	2116	1911
65°	2127	1885	1756
70°	1935	1718	1699
75°	1808	1674	1757
80°	1818	1729	1830
85°	1899	1772	2022



TEST NUMBER: P290929

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.2
10°-20°	411.5	11.9
20°-30°	603.4	17.5
30°-40°	673.4	19.5
40°-50°	609.7	17.7
50°-60°	460.4	13.4
60°-70°	300.9	8.7
70°-80°	176.8	5.1
80°-90°	64.7	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°	1160.1	33.7
0°-40°	1833.5	53.2
0°-60°	2903.6	84.3
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1533	1530	1523	1532	1531	146
15°	1466	1464	1455	1463	1458	413
25°	1326	1321	1310	1307	1301	610
35°	1114	1104	1081	1057	1046	694
45°	844	832	794	751	734	649
55°	567	554	512	472	459	507
65°	334	324	296	279	276	335
75°	174	169	161	164	169	187
85°	62	59	57	65	66	65
90°	0	0	0	0	0	



TEST NUMBER: P290929

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1537.6	1535.2	1527.9	1537.6	1536.8
5°	1532.7	1529.5	1523.0	1531.9	1531.1
7.5°	1523.0	1519.8	1513.3	1521.4	1519.8
10°	1508.5	1505.2	1498.8	1507.7	1503.6
12.5°	1489.9	1486.6	1479.4	1487.4	1484.2
15°	1466.4	1464.0	1455.1	1463.2	1457.5
17.5°	1438.1	1434.1	1427.6	1432.4	1428.4
20°	1406.6	1401.7	1391.2	1396.1	1392.0
22.5°	1368.6	1362.1	1354.8	1354.8	1349.1
25°	1325.7	1320.8	1309.5	1307.1	1300.6
27.5°	1279.6	1275.5	1261.0	1256.9	1245.6
30°	1227.8	1222.2	1206.8	1193.8	1184.1
32.5°	1170.4	1166.3	1145.3	1128.3	1114.6
35°	1113.8	1104.1	1081.4	1057.1	1045.8
37.5°	1047.4	1040.2	1011.9	981.9	966.6
40°	981.1	972.2	939.1	905.9	889.7
42.5°	909.1	901.0	869.5	829.9	812.9
45°	844.4	831.5	793.5	750.6	734.4
47.5°	773.2	759.5	719.1	673.8	655.2
50°	698.0	689.1	647.1	603.4	589.6
52.5°	630.9	617.1	577.5	534.6	520.1
55°	567.0	554.1	512.0	471.6	458.6
57.5°	503.1	488.5	452.1	415.7	402.8
60°	443.2	428.7	393.1	363.2	355.1
62.5°	389.1	372.9	341.3	317.9	312.2
65°	334.0	323.5	296.0	279.0	275.8
67.5°	287.9	275.0	253.2	245.1	243.5
70°	245.9	237.0	218.4	216.0	216.0
72.5°	207.9	200.6	186.8	188.5	190.9
75°	173.9	169.0	161.0	164.2	169.0
77.5°	144.8	139.9	135.1	139.9	143.2
80°	117.3	112.4	111.6	115.7	118.1
82.5°	88.2	84.1	84.9	91.4	93.8
85°	61.5	59.0	57.4	64.7	65.5
87.5°	31.5	29.9	29.1	34.8	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)