

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: P290824

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290824
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

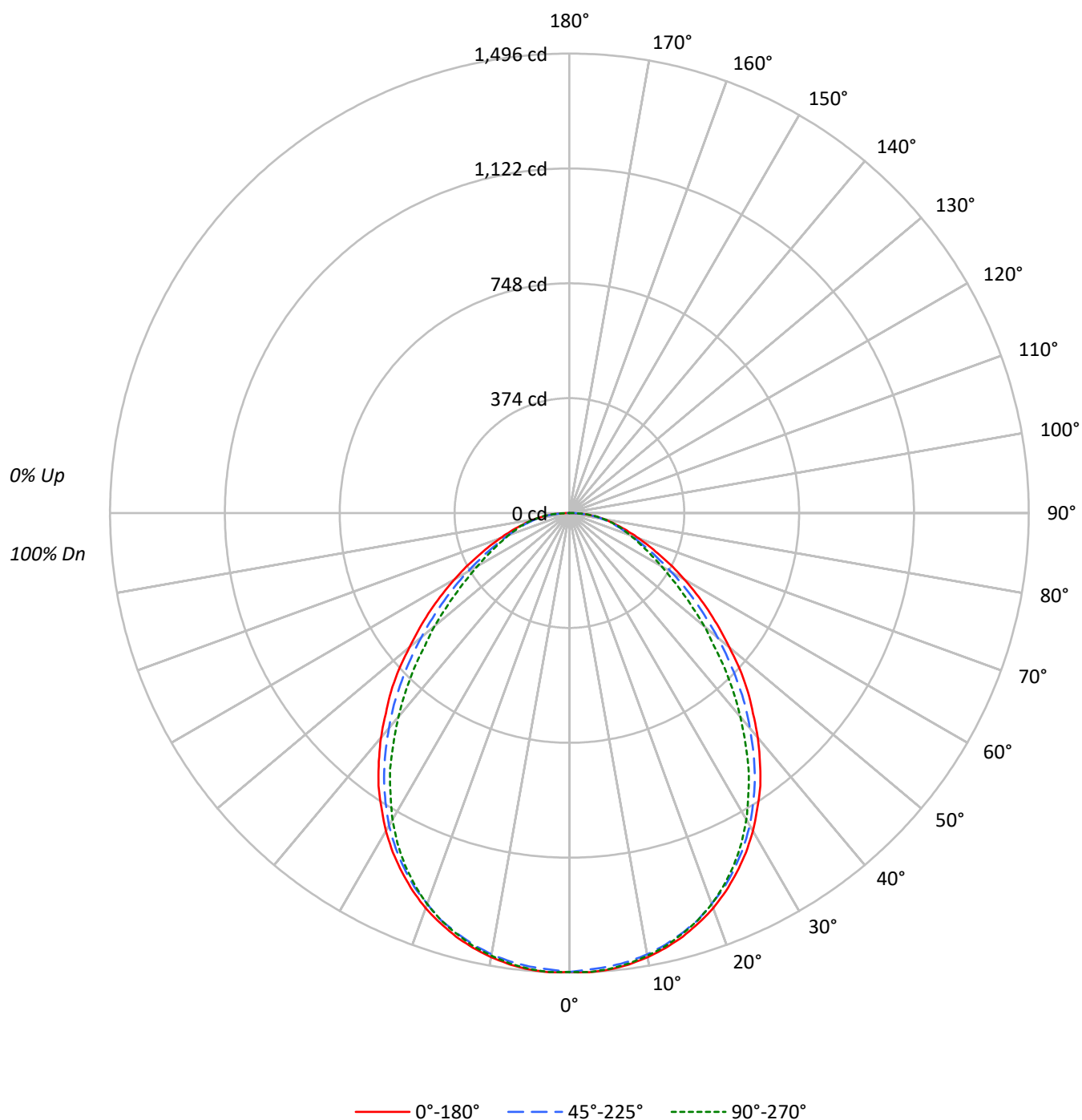
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290824

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P290824

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K

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°	4021	4021	4021
5°	4030	4004	4025
10°	4012	3986	3999
15°	3976	3945	3952
20°	3920	3878	3880
25°	3831	3784	3759
30°	3713	3650	3581
35°	3561	3458	3344
40°	3354	3211	3042
45°	3128	2939	2720
50°	2844	2637	2403
55°	2589	2338	2094
60°	2322	2059	1860
65°	2070	1834	1709
70°	1883	1673	1654
75°	1760	1629	1710
80°	1770	1683	1781
85°	1846	1726	1970



TEST NUMBER: P290824

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	4.2
10°-20°	400.5	11.9
20°-30°	587.3	17.5
30°-40°	655.5	19.5
40°-50°	593.4	17.7
50°-60°	448.1	13.4
60°-70°	292.9	8.7
70°-80°	172.0	5.1
80°-90°	63.0	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°	1129.1	33.7
0°-40°	1784.6	53.2
0°-60°	2826.1	84.3
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1492	1489	1482	1491	1490	142
15°	1427	1425	1416	1424	1419	402
25°	1290	1286	1274	1272	1266	594
35°	1084	1075	1052	1029	1018	675
45°	822	809	772	731	715	632
55°	552	539	498	459	446	494
65°	325	315	288	272	268	326
75°	169	164	157	160	164	182
85°	60	58	56	63	64	64
90°	0	0	0	0	0	



TEST NUMBER: P290824

CATALOG NUMBER: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.2	1494.2	1494.2	1494.2	1494.2
2.5°	1496.5	1494.2	1487.1	1496.5	1495.8
5°	1491.8	1488.7	1482.4	1491.0	1490.2
7.5°	1482.4	1479.2	1472.9	1480.8	1479.2
10°	1468.2	1465.1	1458.8	1467.4	1463.5
12.5°	1450.1	1447.0	1439.9	1447.7	1444.6
15°	1427.3	1424.9	1416.2	1424.1	1418.6
17.5°	1399.7	1395.8	1389.5	1394.2	1390.3
20°	1369.0	1364.3	1354.1	1358.8	1354.8
22.5°	1332.0	1325.7	1318.6	1318.6	1313.1
25°	1290.3	1285.6	1274.5	1272.2	1265.9
27.5°	1245.4	1241.5	1227.3	1223.4	1212.4
30°	1195.0	1189.5	1174.6	1162.0	1152.5
32.5°	1139.1	1135.2	1114.7	1098.2	1084.8
35°	1084.0	1074.6	1052.5	1028.9	1017.9
37.5°	1019.5	1012.4	984.8	955.7	940.8
40°	954.9	946.3	914.0	881.7	866.0
42.5°	884.9	877.0	846.3	807.7	791.2
45°	821.9	809.3	772.3	730.6	714.8
47.5°	752.6	739.2	699.9	655.8	637.7
50°	679.4	670.7	629.8	587.3	573.9
52.5°	614.0	600.7	562.1	520.4	506.2
55°	551.9	539.3	498.3	459.0	446.4
57.5°	489.7	475.5	440.1	404.6	392.0
60°	431.4	417.2	382.6	353.5	345.6
62.5°	378.7	362.9	332.2	309.4	303.9
65°	325.1	314.9	288.1	271.6	268.4
67.5°	280.3	267.7	246.4	238.5	237.0
70°	239.3	230.7	212.6	210.2	210.2
72.5°	202.3	195.2	181.9	183.4	185.8
75°	169.3	164.5	156.7	159.8	164.5
77.5°	140.9	136.2	131.5	136.2	139.3
80°	114.2	109.4	108.6	112.6	114.9
82.5°	85.8	81.9	82.7	89.0	91.3
85°	59.8	57.5	55.9	63.0	63.8
87.5°	30.7	29.1	28.3	33.9	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)