

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: P290620

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

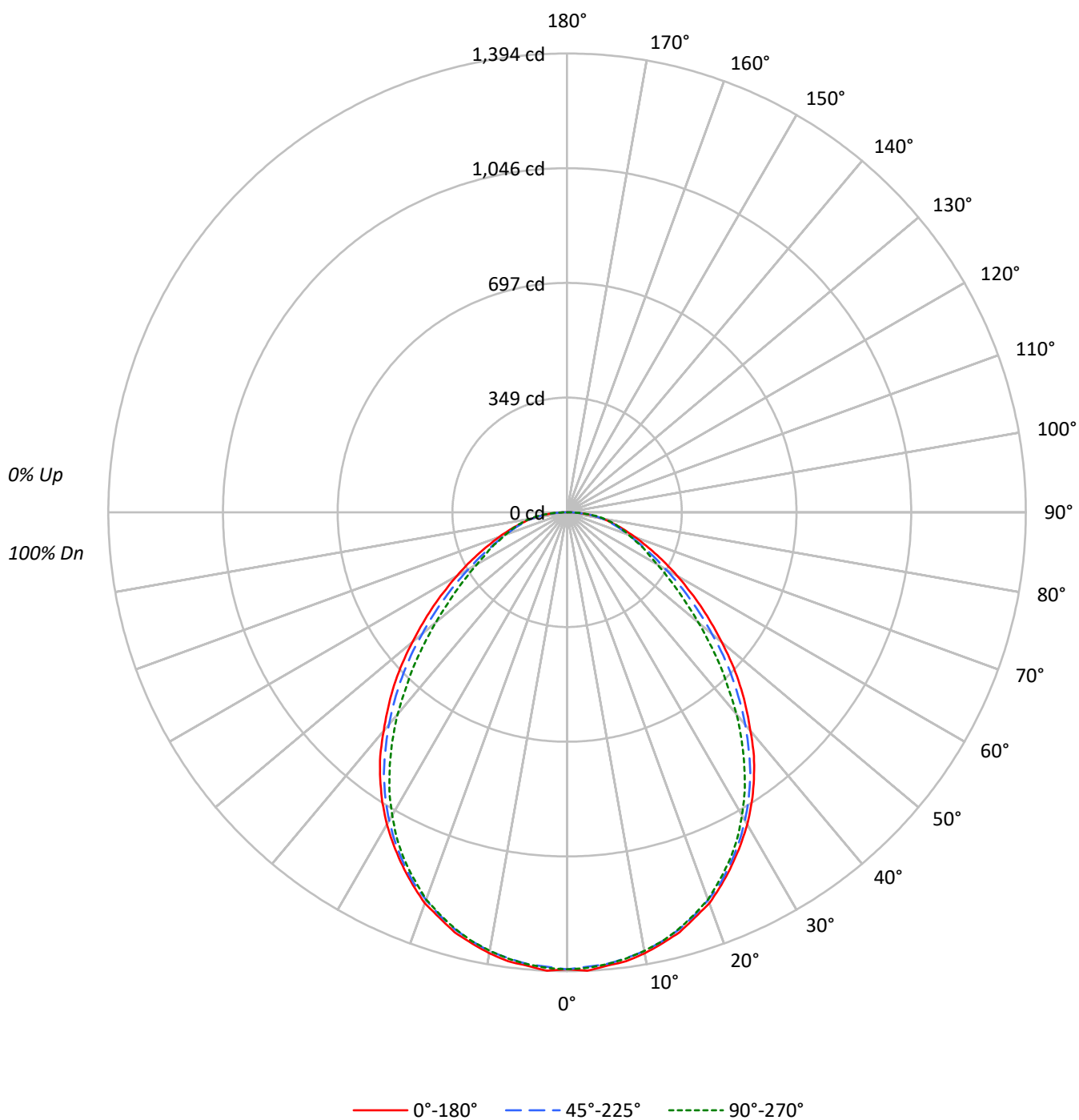
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290620

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P290620

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K

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	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	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			52	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			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3736	3736	3736
5°	3735	3722	3723
10°	3716	3699	3697
15°	3679	3657	3651
20°	3619	3589	3584
25°	3515	3492	3467
30°	3401	3360	3302
35°	3252	3189	3085
40°	3045	2960	2814
45°	2828	2701	2504
50°	2565	2406	2180
55°	2320	2125	1906
60°	2083	1862	1699
65°	1870	1663	1626
70°	1726	1548	1564
75°	1648	1552	1641
80°	1667	1655	1787
85°	1726	1704	1902



TEST NUMBER: P290620

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	4.2
10°-20°	370.5	12.0
20°-30°	541.1	17.5
30°-40°	602.9	19.5
40°-50°	543.3	17.6
50°-60°	406.1	13.2
60°-70°	267.9	8.7
70°-80°	163.5	5.3
80°-90°	60.7	2.0
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°	1042.7	33.8
0°-40°	1645.6	53.3
0°-60°	2594.9	84.1
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1383	1381	1378	1385	1378	131
15°	1320	1315	1313	1320	1310	372
25°	1184	1180	1176	1178	1168	545
35°	990	981	971	954	939	617
45°	743	735	710	677	658	572
55°	495	487	453	415	406	443
65°	294	284	261	250	255	294
75°	158	156	149	154	158	169
85°	56	54	55	61	62	60
90°	0	0	0	0	0	



TEST NUMBER: P290620

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1394.0	1387.6	1381.9	1390.4	1385.5
5°	1382.6	1381.2	1377.7	1384.8	1378.4
7.5°	1375.6	1370.6	1366.4	1374.9	1367.8
10°	1360.0	1357.2	1353.6	1360.7	1352.9
12.5°	1340.9	1338.1	1334.5	1343.0	1334.5
15°	1320.4	1315.4	1312.6	1320.4	1310.5
17.5°	1290.7	1288.5	1284.3	1292.1	1282.2
20°	1263.8	1256.0	1253.2	1258.8	1251.7
22.5°	1224.8	1219.2	1218.5	1222.0	1210.0
25°	1183.8	1179.6	1176.0	1178.1	1167.5
27.5°	1140.6	1135.0	1130.7	1130.0	1118.7
30°	1094.6	1087.6	1081.2	1075.5	1062.8
32.5°	1044.4	1035.9	1027.4	1018.2	1004.8
35°	989.9	981.4	970.8	953.8	939.0
37.5°	932.6	922.7	905.7	885.9	871.0
40°	866.8	861.9	842.7	817.3	801.0
42.5°	805.2	799.6	775.5	747.2	725.3
45°	743.0	735.2	709.7	677.2	658.1
47.5°	679.3	671.5	643.2	602.9	585.9
50°	612.8	608.5	574.6	537.8	520.8
52.5°	551.9	547.0	512.3	475.5	459.9
55°	494.6	486.8	452.9	415.4	406.2
57.5°	437.3	428.8	397.0	365.1	358.8
60°	387.1	376.4	346.0	321.2	315.6
62.5°	339.6	327.6	302.1	283.0	280.2
65°	293.7	284.5	261.1	250.5	255.4
67.5°	254.0	244.8	227.8	223.6	222.2
70°	219.4	210.9	196.7	198.1	198.8
72.5°	187.5	182.6	171.9	175.5	178.3
75°	158.5	155.7	149.3	154.3	157.8
77.5°	132.3	130.2	127.4	131.6	137.3
80°	107.6	106.1	106.8	109.7	115.3
82.5°	82.8	80.0	82.1	87.7	91.3
85°	55.9	53.8	55.2	60.9	61.6
87.5°	26.2	26.2	25.5	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)