

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: P290576

Luminaire Tested: **14GR-LD5-32-F1-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290576
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-L83050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

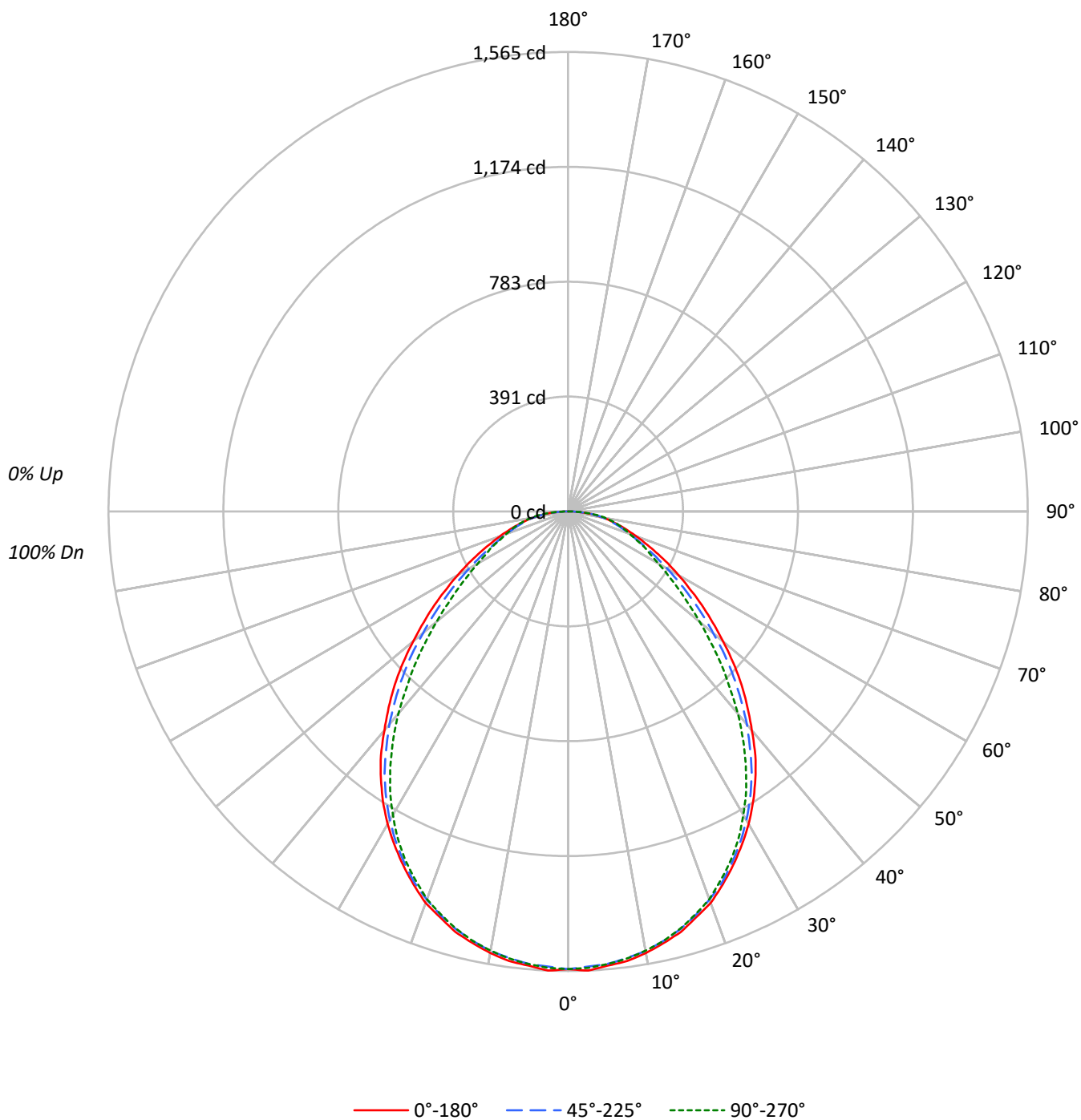
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290576

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L83050-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P290576

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L83050-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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4194	4194	4194
5°	4193	4178	4180
10°	4173	4153	4151
15°	4130	4106	4099
20°	4063	4029	4025
25°	3946	3920	3892
30°	3819	3772	3708
35°	3651	3581	3463
40°	3419	3324	3159
45°	3175	3033	2812
50°	2880	2701	2448
55°	2605	2386	2139
60°	2339	2091	1907
65°	2099	1867	1826
70°	1938	1738	1756
75°	1851	1743	1842
80°	1872	1860	2007
85°	1939	1914	2133



TEST NUMBER: P290576

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L83050-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	4.2
10°-20°	416.0	12.0
20°-30°	607.5	17.5
30°-40°	677.0	19.5
40°-50°	610.0	17.6
50°-60°	455.9	13.2
60°-70°	300.8	8.7
70°-80°	183.6	5.3
80°-90°	68.1	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°	1170.7	33.8
0°-40°	1847.6	53.3
0°-60°	2913.5	84.1
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1552	1551	1547	1555	1548	148
15°	1482	1477	1474	1482	1471	417
25°	1329	1324	1320	1323	1311	612
35°	1112	1102	1090	1071	1054	693
45°	834	826	797	760	739	642
55°	555	547	508	466	456	497
65°	330	319	293	281	287	330
75°	178	175	168	173	177	190
85°	63	60	62	68	69	67
90°	0	0	0	0	0	



TEST NUMBER: P290576

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L83050-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.7	1558.7	1558.7	1558.7	1558.7
2.5°	1565.1	1558.0	1551.6	1561.1	1555.6
5°	1552.4	1550.8	1546.8	1554.8	1547.6
7.5°	1544.4	1538.9	1534.1	1543.7	1535.7
10°	1527.0	1523.8	1519.8	1527.8	1519.0
12.5°	1505.5	1502.3	1498.4	1507.9	1498.4
15°	1482.5	1476.9	1473.7	1482.5	1471.4
17.5°	1449.1	1446.7	1442.0	1450.7	1439.6
20°	1418.9	1410.2	1407.0	1413.4	1405.4
22.5°	1375.2	1368.9	1368.1	1372.0	1358.5
25°	1329.1	1324.4	1320.4	1322.8	1310.9
27.5°	1280.7	1274.3	1269.6	1268.8	1256.1
30°	1229.0	1221.1	1213.9	1207.6	1193.3
32.5°	1172.6	1163.1	1153.6	1143.2	1128.1
35°	1111.5	1101.9	1090.0	1070.9	1054.3
37.5°	1047.1	1036.0	1016.9	994.7	978.0
40°	973.2	967.7	946.2	917.6	899.3
42.5°	904.1	897.7	870.7	839.0	814.3
45°	834.2	825.5	796.9	760.3	738.9
47.5°	762.7	754.0	722.2	676.9	657.8
50°	688.0	683.2	645.1	603.8	584.7
52.5°	619.7	614.1	575.2	533.9	516.4
55°	555.3	546.6	508.5	466.4	456.0
57.5°	491.0	481.4	445.7	409.9	402.8
60°	434.6	422.7	388.5	360.7	354.3
62.5°	381.3	367.8	339.2	317.8	314.6
65°	329.7	319.4	293.2	281.2	286.8
67.5°	285.2	274.9	255.8	251.1	249.5
70°	246.3	236.8	220.9	222.5	223.2
72.5°	210.5	205.0	193.1	197.0	200.2
75°	178.0	174.8	167.6	173.2	177.2
77.5°	148.6	146.2	143.0	147.8	154.1
80°	120.8	119.2	120.0	123.1	129.5
82.5°	93.0	89.8	92.2	98.5	102.5
85°	62.8	60.4	62.0	68.3	69.1
87.5°	29.4	29.4	28.6	33.4	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)