

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: P290621

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290621
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3194.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

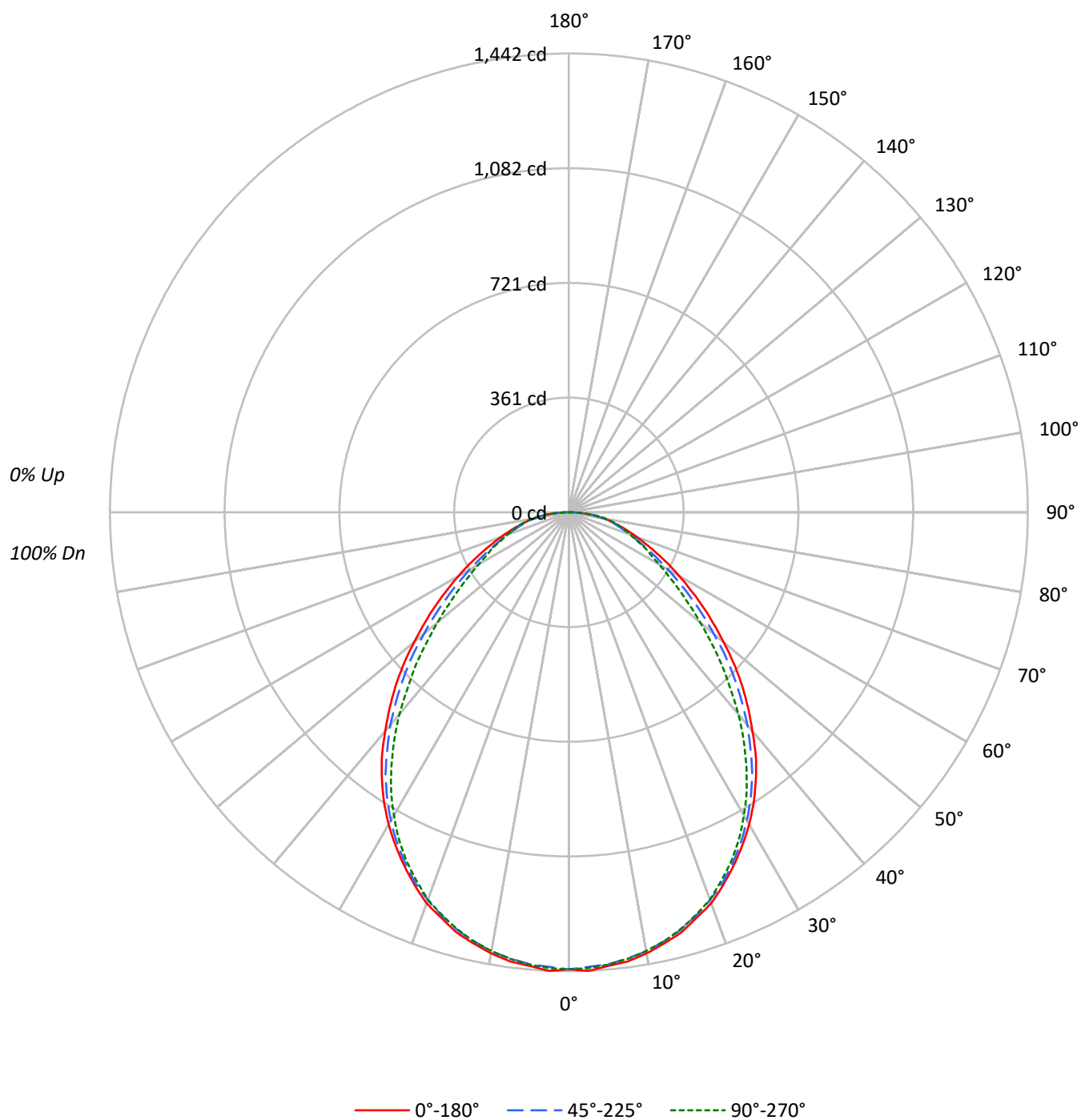
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290621

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290621

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3500K

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°	3865	3865	3865
5°	3864	3850	3853
10°	3845	3827	3825
15°	3806	3784	3777
20°	3745	3713	3709
25°	3637	3613	3587
30°	3519	3476	3417
35°	3365	3300	3191
40°	3150	3063	2911
45°	2925	2794	2591
50°	2654	2489	2256
55°	2401	2198	1971
60°	2155	1927	1757
65°	1934	1720	1683
70°	1786	1601	1618
75°	1705	1606	1698
80°	1725	1714	1849
85°	1785	1763	1967



TEST NUMBER: P290621

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	4.2
10°-20°	383.4	12.0
20°-30°	559.8	17.5
30°-40°	623.8	19.5
40°-50°	562.1	17.6
50°-60°	420.2	13.2
60°-70°	277.2	8.7
70°-80°	169.2	5.3
80°-90°	62.8	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°	1078.8	33.8
0°-40°	1702.6	53.3
0°-60°	2684.9	84.1
0°-90°	3194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1431	1429	1425	1433	1426	136
15°	1366	1361	1358	1366	1356	384
25°	1225	1220	1217	1219	1208	564
35°	1024	1016	1004	987	972	639
45°	769	761	734	701	681	592
55°	512	504	469	430	420	458
65°	304	294	270	259	264	305
75°	164	161	154	160	163	175
85°	58	56	57	63	64	62
90°	0	0	0	0	0	



TEST NUMBER: P290621

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.4	1436.4	1436.4	1436.4	1436.4
2.5°	1442.3	1435.7	1429.8	1438.6	1433.5
5°	1430.6	1429.1	1425.4	1432.8	1426.2
7.5°	1423.2	1418.1	1413.7	1422.5	1415.2
10°	1407.1	1404.2	1400.5	1407.9	1399.8
12.5°	1387.4	1384.4	1380.8	1389.6	1380.8
15°	1366.1	1361.0	1358.1	1366.1	1355.9
17.5°	1335.4	1333.2	1328.8	1336.9	1326.6
20°	1307.6	1299.5	1296.6	1302.4	1295.1
22.5°	1267.3	1261.4	1260.7	1264.4	1251.9
25°	1224.8	1220.4	1216.8	1219.0	1208.0
27.5°	1180.2	1174.3	1169.9	1169.2	1157.5
30°	1132.6	1125.3	1118.7	1112.8	1099.6
32.5°	1080.6	1071.8	1063.0	1053.5	1039.6
35°	1024.2	1015.5	1004.5	986.9	971.5
37.5°	964.9	954.7	937.1	916.6	901.2
40°	896.8	891.7	872.0	845.6	828.8
42.5°	833.2	827.3	802.4	773.1	750.4
45°	768.7	760.7	734.3	700.6	680.9
47.5°	702.8	694.8	665.5	623.8	606.2
50°	634.0	629.6	594.5	556.4	538.8
52.5°	571.1	565.9	530.1	492.0	475.9
55°	511.8	503.7	468.6	429.8	420.2
57.5°	452.5	443.7	410.7	377.8	371.2
60°	400.5	389.5	358.0	332.4	326.5
62.5°	351.4	339.0	312.6	292.8	289.9
65°	303.8	294.3	270.2	259.2	264.3
67.5°	262.8	253.3	235.7	231.4	229.9
70°	227.0	218.2	203.5	205.0	205.7
72.5°	194.0	188.9	177.9	181.6	184.5
75°	164.0	161.1	154.5	159.6	163.3
77.5°	136.9	134.7	131.8	136.2	142.0
80°	111.3	109.8	110.6	113.5	119.3
82.5°	85.7	82.7	84.9	90.8	94.4
85°	57.8	55.6	57.1	63.0	63.7
87.5°	27.1	27.1	26.4	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)