

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: P290820

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290820
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-LD5-32-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3367.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

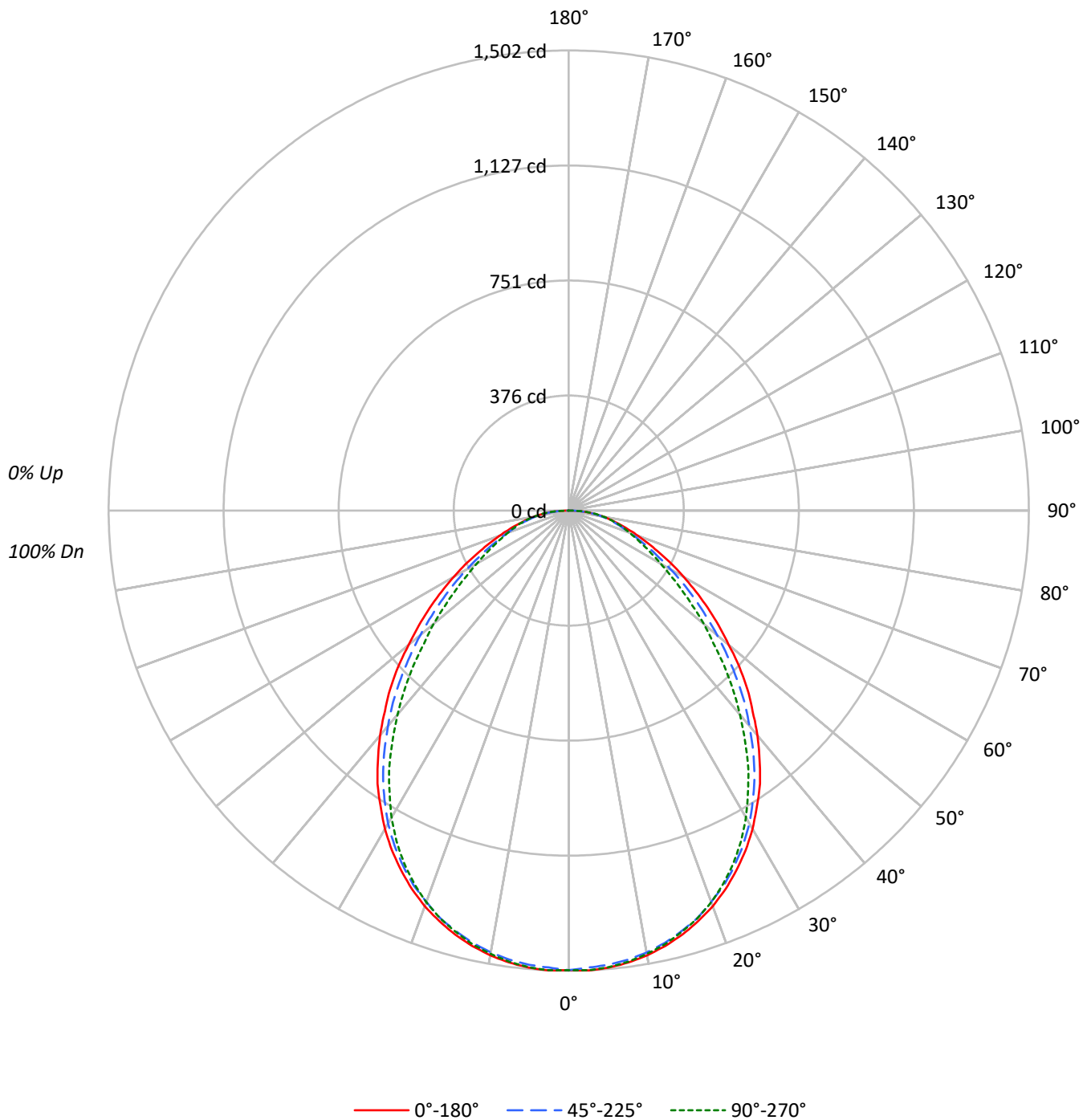
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	4036	4036	4036
5°	4045	4020	4041
10°	4027	4001	4015
15°	3992	3961	3967
20°	3936	3893	3895
25°	3846	3799	3773
30°	3728	3664	3595
35°	3575	3471	3357
40°	3367	3223	3054
45°	3140	2950	2731
50°	2855	2647	2412
55°	2599	2347	2102
60°	2331	2067	1867
65°	2078	1841	1716
70°	1890	1679	1660
75°	1766	1635	1718
80°	1776	1691	1788
85°	1856	1732	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	4.2
10°-20°	402.1	11.9
20°-30°	589.5	17.5
30°-40°	658.0	19.5
40°-50°	595.7	17.7
50°-60°	449.8	13.4
60°-70°	294.1	8.7
70°-80°	172.7	5.1
80°-90°	63.2	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°	1133.5	33.7
0°-40°	1791.5	53.2
0°-60°	2837.0	84.3
0°-90°	3367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1498	1494	1488	1497	1496	142
15°	1433	1430	1422	1430	1424	404
25°	1295	1290	1280	1277	1271	596
35°	1088	1079	1057	1033	1022	678
45°	825	812	775	733	718	634
55°	554	541	500	461	448	496
65°	326	316	289	273	270	327
75°	170	165	157	160	165	183
85°	60	58	56	63	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.0	1500.0	1500.0	1500.0	1500.0
2.5°	1502.3	1500.0	1492.9	1502.3	1501.6
5°	1497.6	1494.4	1488.1	1496.8	1496.0
7.5°	1488.1	1485.0	1478.6	1486.5	1485.0
10°	1473.9	1470.7	1464.4	1473.1	1469.2
12.5°	1455.7	1452.6	1445.4	1453.3	1450.2
15°	1432.8	1430.4	1421.7	1429.6	1424.1
17.5°	1405.1	1401.2	1394.9	1399.6	1395.7
20°	1374.3	1369.6	1359.3	1364.0	1360.1
22.5°	1337.2	1330.9	1323.7	1323.7	1318.2
25°	1295.3	1290.5	1279.5	1277.1	1270.8
27.5°	1250.2	1246.3	1232.1	1228.1	1217.1
30°	1199.7	1194.1	1179.1	1166.5	1157.0
32.5°	1143.6	1139.6	1119.1	1102.5	1089.0
35°	1088.2	1078.8	1056.6	1032.9	1021.8
37.5°	1023.4	1016.3	988.7	959.4	944.4
40°	958.6	949.9	917.5	885.1	869.3
42.5°	888.3	880.4	849.6	810.8	794.2
45°	825.1	812.4	775.3	733.4	717.6
47.5°	755.5	742.1	702.6	658.3	640.1
50°	682.0	673.3	632.2	589.6	576.1
52.5°	616.4	603.0	564.3	522.4	508.2
55°	554.0	541.4	500.3	460.7	448.1
57.5°	491.6	477.3	441.8	406.2	393.6
60°	433.1	418.9	384.1	354.8	346.9
62.5°	380.1	364.3	333.5	310.6	305.1
65°	326.4	316.1	289.2	272.7	269.5
67.5°	281.3	268.7	247.4	239.5	237.9
70°	240.2	231.6	213.4	211.0	211.0
72.5°	203.1	196.0	182.6	184.1	186.5
75°	169.9	165.2	157.3	160.4	165.2
77.5°	141.5	136.7	132.0	136.7	139.9
80°	114.6	109.9	109.1	113.0	115.4
82.5°	86.1	82.2	83.0	89.3	91.7
85°	60.1	57.7	56.1	63.2	64.0
87.5°	30.8	29.2	28.5	34.0	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)