

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: P290917

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290917
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

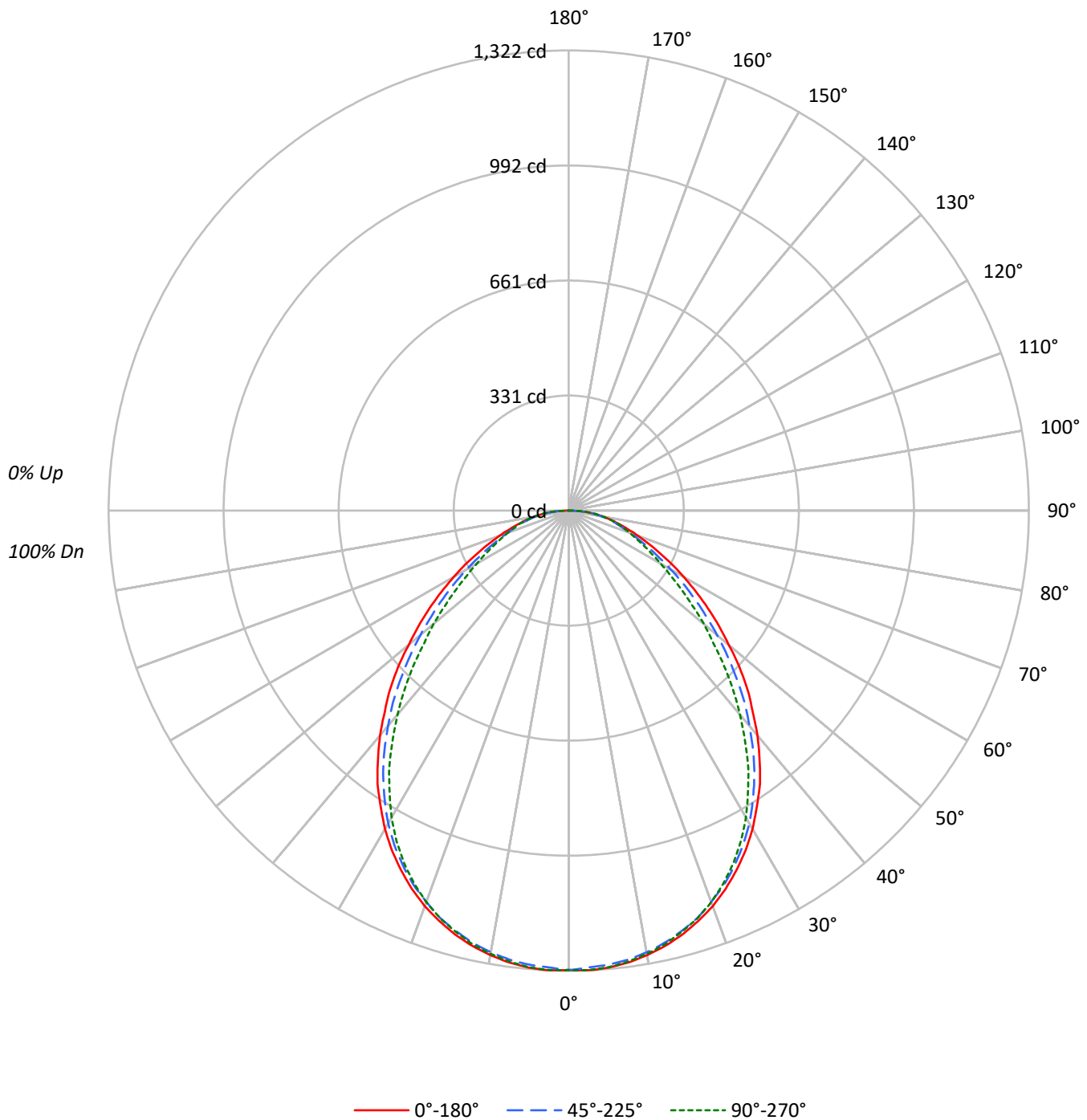
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	3552	3552	3552
5°	3560	3538	3556
10°	3544	3521	3533
15°	3513	3485	3491
20°	3463	3426	3428
25°	3385	3343	3320
30°	3280	3224	3164
35°	3146	3054	2954
40°	2963	2836	2687
45°	2763	2597	2403
50°	2513	2329	2123
55°	2287	2065	1850
60°	2051	1819	1643
65°	1829	1621	1510
70°	1663	1478	1461
75°	1554	1439	1512
80°	1562	1488	1573
85°	1633	1525	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	4.2
10°-20°	353.8	11.9
20°-30°	518.8	17.5
30°-40°	579.1	19.5
40°-50°	524.3	17.7
50°-60°	395.8	13.4
60°-70°	258.8	8.7
70°-80°	152.0	5.1
80°-90°	55.6	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°	997.5	33.7
0°-40°	1576.5	53.2
0°-60°	2496.6	84.3
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1315	1310	1317	1316	125
15°	1261	1259	1251	1258	1253	355
25°	1140	1136	1126	1124	1118	524
35°	958	949	930	909	899	596
45°	726	715	682	645	632	558
55°	488	476	440	406	394	436
65°	287	278	254	240	237	288
75°	150	145	138	141	145	161
85°	53	51	49	56	56	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1322.1	1320.0	1313.7	1322.1	1321.4
5°	1317.9	1315.1	1309.6	1317.2	1316.5
7.5°	1309.6	1306.8	1301.2	1308.2	1306.8
10°	1297.0	1294.3	1288.7	1296.4	1292.9
12.5°	1281.1	1278.3	1272.0	1279.0	1276.2
15°	1260.9	1258.8	1251.1	1258.1	1253.2
17.5°	1236.5	1233.1	1227.5	1231.7	1228.2
20°	1209.4	1205.2	1196.2	1200.4	1196.9
22.5°	1176.7	1171.2	1164.9	1164.9	1160.0
25°	1139.9	1135.7	1126.0	1123.9	1118.3
27.5°	1100.2	1096.8	1084.2	1080.8	1071.0
30°	1055.7	1050.9	1037.6	1026.5	1018.2
32.5°	1006.3	1002.9	984.8	970.2	958.4
35°	957.7	949.3	929.8	909.0	899.2
37.5°	900.6	894.4	870.0	844.3	831.1
40°	843.6	836.0	807.4	778.9	765.0
42.5°	781.7	774.8	747.6	713.5	698.9
45°	726.1	714.9	682.3	645.4	631.5
47.5°	664.9	653.0	618.3	579.3	563.3
50°	600.2	592.5	556.4	518.8	507.0
52.5°	542.5	530.6	496.6	459.7	447.2
55°	487.5	476.4	440.2	405.5	394.3
57.5°	432.6	420.1	388.8	357.5	346.3
60°	381.1	368.6	338.0	312.3	305.3
62.5°	334.5	320.6	293.5	273.3	268.5
65°	287.2	278.2	254.5	239.9	237.2
67.5°	247.6	236.5	217.7	210.7	209.3
70°	211.4	203.8	187.8	185.7	185.7
72.5°	178.7	172.5	160.7	162.0	164.1
75°	149.5	145.4	138.4	141.2	145.4
77.5°	124.5	120.3	116.1	120.3	123.1
80°	100.8	96.7	96.0	99.5	101.5
82.5°	75.8	72.3	73.0	78.6	80.7
85°	52.9	50.8	49.4	55.6	56.3
87.5°	27.1	25.7	25.0	29.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)