

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: P290919

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290919
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3069.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

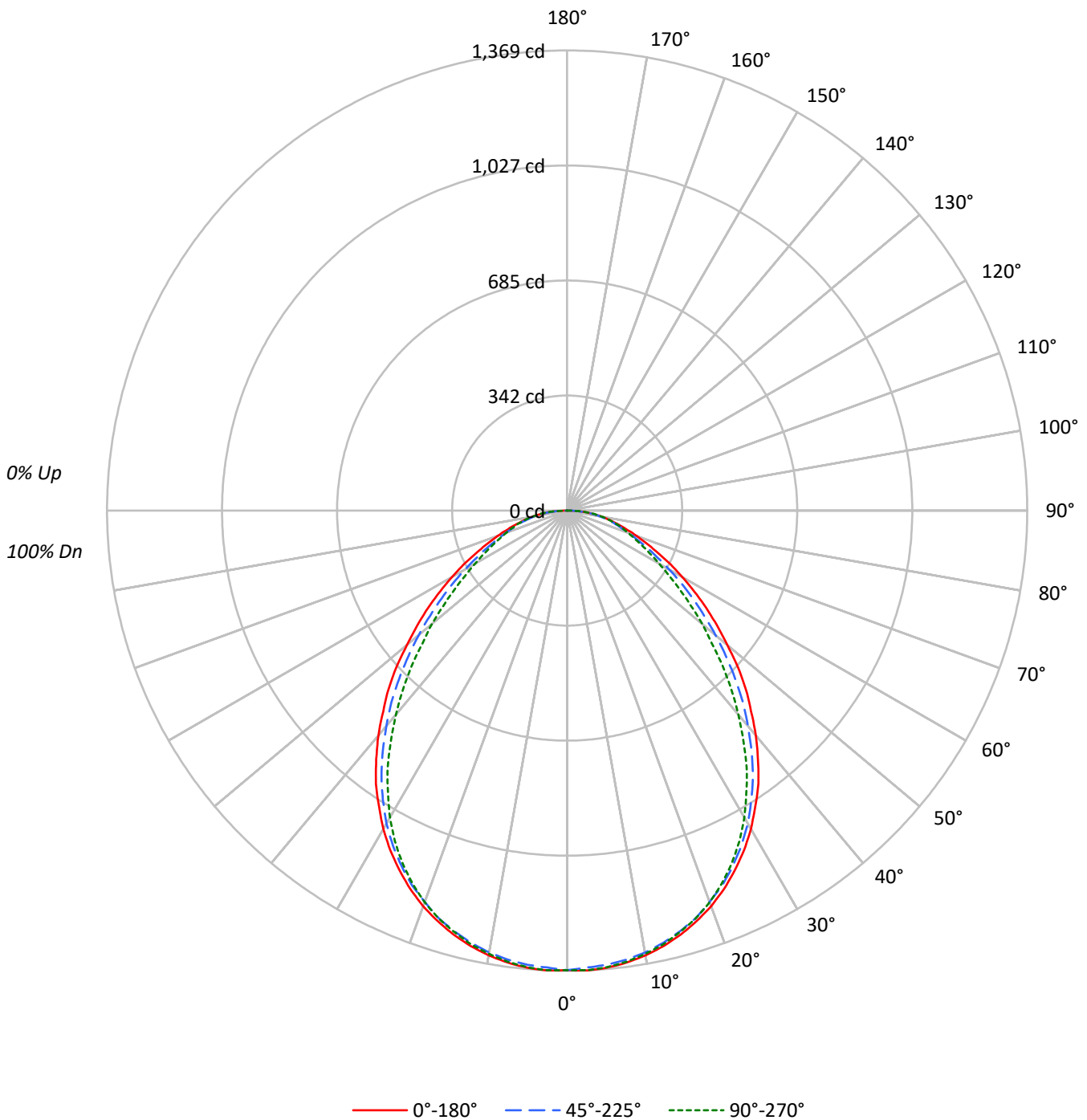
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3679	3679	3679
5°	3687	3664	3683
10°	3671	3647	3659
15°	3638	3610	3616
20°	3587	3548	3550
25°	3505	3463	3439
30°	3398	3340	3277
35°	3258	3164	3060
40°	3070	2938	2784
45°	2862	2689	2489
50°	2603	2413	2198
55°	2369	2139	1916
60°	2125	1884	1702
65°	1894	1678	1564
70°	1723	1530	1513
75°	1611	1490	1566
80°	1619	1540	1630
85°	1689	1578	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	4.2
10°-20°	366.5	11.9
20°-30°	537.4	17.5
30°-40°	599.8	19.5
40°-50°	543.0	17.7
50°-60°	410.0	13.4
60°-70°	268.0	8.7
70°-80°	157.4	5.1
80°-90°	57.6	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°	1033.2	33.7
0°-40°	1632.9	53.2
0°-60°	2585.9	84.3
0°-90°	3069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1365	1362	1356	1364	1364	130
15°	1306	1304	1296	1303	1298	368
25°	1181	1176	1166	1164	1158	543
35°	992	983	963	942	931	618
45°	752	740	707	668	654	578
55°	505	493	456	420	408	452
65°	298	288	264	248	246	298
75°	155	151	143	146	151	166
85°	55	53	51	58	58	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.2	1367.2	1367.2	1367.2	1367.2
2.5°	1369.4	1367.2	1360.7	1369.4	1368.7
5°	1365.1	1362.2	1356.4	1364.3	1363.6
7.5°	1356.4	1353.5	1347.8	1355.0	1353.5
10°	1343.4	1340.6	1334.8	1342.7	1339.1
12.5°	1326.9	1324.0	1317.5	1324.7	1321.8
15°	1306.0	1303.8	1295.9	1303.1	1298.1
17.5°	1280.8	1277.2	1271.4	1275.7	1272.1
20°	1252.7	1248.4	1239.0	1243.3	1239.7
22.5°	1218.8	1213.1	1206.6	1206.6	1201.5
25°	1180.6	1176.3	1166.2	1164.1	1158.3
27.5°	1139.6	1136.0	1123.0	1119.4	1109.3
30°	1093.5	1088.4	1074.8	1063.2	1054.6
32.5°	1042.3	1038.7	1020.0	1004.9	992.6
35°	991.9	983.3	963.1	941.5	931.4
37.5°	932.9	926.4	901.2	874.5	860.8
40°	873.8	865.9	836.3	806.8	792.4
42.5°	809.7	802.5	774.4	739.1	723.9
45°	752.0	740.5	706.7	668.5	654.1
47.5°	688.7	676.4	640.4	600.0	583.5
50°	621.7	613.7	576.3	537.4	525.1
52.5°	561.9	549.6	514.3	476.1	463.2
55°	505.0	493.4	456.0	420.0	408.4
57.5°	448.1	435.1	402.7	370.3	358.7
60°	394.8	381.8	350.1	323.4	316.2
62.5°	346.5	332.1	304.0	283.1	278.1
65°	297.5	288.1	263.6	248.5	245.6
67.5°	256.4	244.9	225.5	218.3	216.8
70°	219.0	211.1	194.5	192.3	192.3
72.5°	185.1	178.6	166.4	167.8	170.0
75°	154.9	150.6	143.3	146.2	150.6
77.5°	128.9	124.6	120.3	124.6	127.5
80°	104.5	100.1	99.4	103.0	105.2
82.5°	78.5	74.9	75.6	81.4	83.6
85°	54.7	52.6	51.1	57.6	58.3
87.5°	28.1	26.7	25.9	31.0	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)