

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: P290918

Luminaire Tested: **14GR-LD5-32-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290918
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

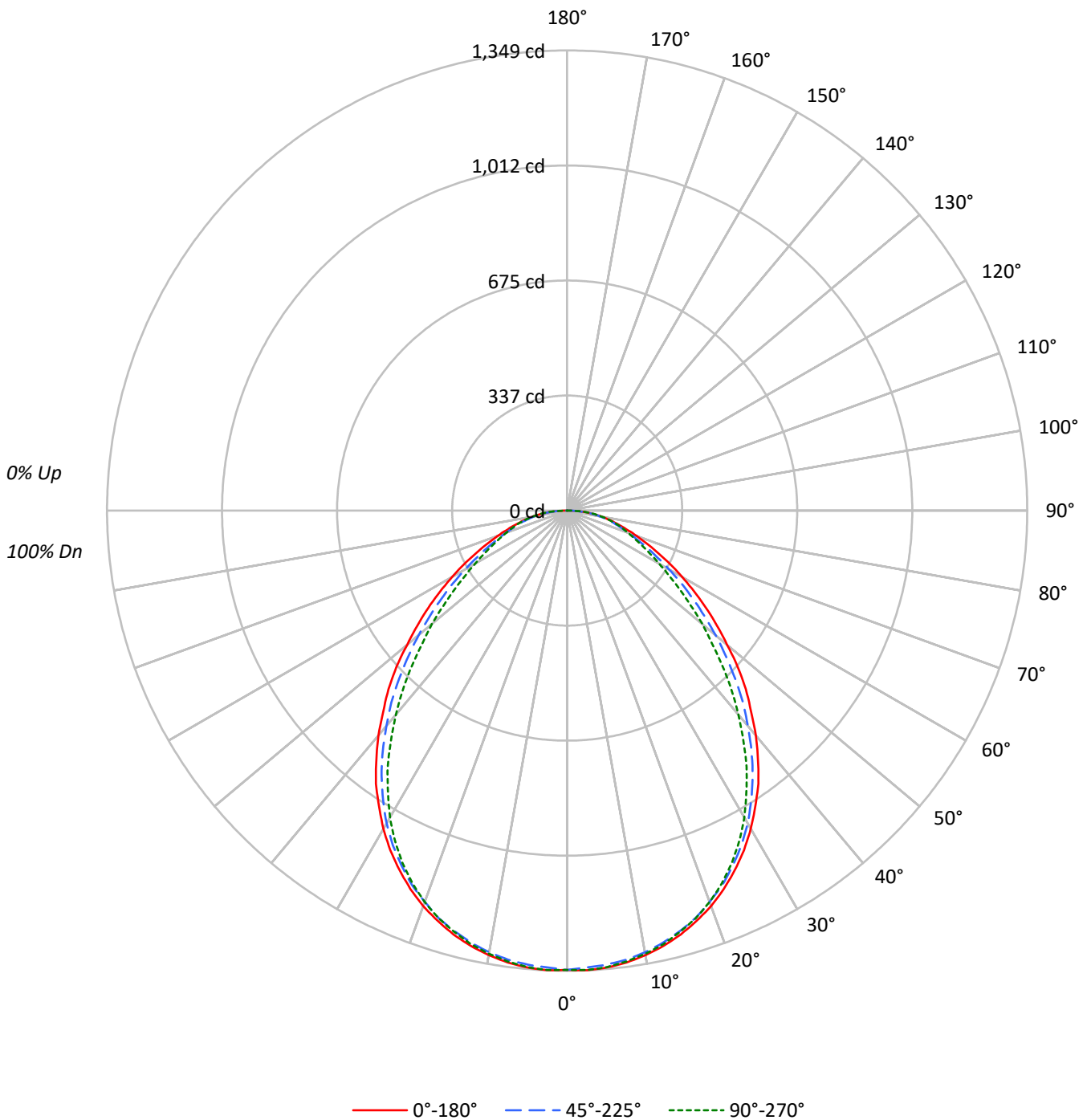
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3624	3624	3624
5°	3632	3609	3628
10°	3616	3593	3604
15°	3584	3556	3562
20°	3533	3495	3497
25°	3453	3411	3388
30°	3347	3289	3228
35°	3210	3117	3014
40°	3023	2894	2742
45°	2819	2649	2452
50°	2563	2376	2166
55°	2334	2107	1887
60°	2093	1856	1676
65°	1866	1654	1541
70°	1697	1507	1491
75°	1587	1468	1542
80°	1595	1517	1605
85°	1664	1556	1775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	4.2
10°-20°	361.0	11.9
20°-30°	529.3	17.5
30°-40°	590.8	19.5
40°-50°	534.9	17.7
50°-60°	403.8	13.4
60°-70°	264.0	8.7
70°-80°	155.1	5.1
80°-90°	56.8	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°	1017.7	33.7
0°-40°	1608.5	53.2
0°-60°	2547.2	84.3
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1345	1342	1336	1344	1343	128
15°	1286	1284	1276	1284	1279	363
25°	1163	1159	1149	1147	1141	535
35°	977	968	949	927	917	609
45°	741	729	696	658	644	569
55°	497	486	449	414	402	445
65°	293	284	260	245	242	294
75°	153	148	141	144	148	164
85°	54	52	50	57	58	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1348.9	1346.7	1340.3	1348.9	1348.1
5°	1344.6	1341.8	1336.1	1343.9	1343.2
7.5°	1336.1	1333.2	1327.6	1334.7	1333.2
10°	1323.3	1320.5	1314.8	1322.6	1319.1
12.5°	1307.0	1304.2	1297.8	1304.9	1302.0
15°	1286.4	1284.3	1276.5	1283.6	1278.6
17.5°	1261.6	1258.0	1252.4	1256.6	1253.1
20°	1233.9	1229.7	1220.4	1224.7	1221.1
22.5°	1200.6	1194.9	1188.5	1188.5	1183.5
25°	1163.0	1158.7	1148.8	1146.6	1141.0
27.5°	1122.5	1119.0	1106.2	1102.6	1092.7
30°	1077.1	1072.1	1058.6	1047.3	1038.8
32.5°	1026.7	1023.2	1004.7	989.8	977.8
35°	977.1	968.5	948.7	927.4	917.4
37.5°	918.9	912.5	887.6	861.4	847.9
40°	860.7	852.9	823.8	794.7	780.5
42.5°	797.5	790.4	762.8	728.0	713.1
45°	740.8	729.4	696.1	658.5	644.3
47.5°	678.3	666.3	630.8	591.1	574.7
50°	612.3	604.5	567.6	529.3	517.3
52.5°	553.4	541.4	506.6	469.0	456.2
55°	497.4	486.0	449.1	413.7	402.3
57.5°	441.3	428.6	396.6	364.7	353.4
60°	388.8	376.1	344.8	318.6	311.5
62.5°	341.3	327.1	299.4	278.9	273.9
65°	293.0	283.8	259.7	244.8	242.0
67.5°	252.6	241.2	222.1	215.0	213.6
70°	215.7	207.9	191.6	189.5	189.5
72.5°	182.4	176.0	163.9	165.3	167.5
75°	152.6	148.3	141.2	144.0	148.3
77.5°	127.0	122.8	118.5	122.8	125.6
80°	102.9	98.6	97.9	101.5	103.6
82.5°	77.3	73.8	74.5	80.2	82.3
85°	53.9	51.8	50.4	56.8	57.5
87.5°	27.7	26.3	25.5	30.5	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)