

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: P290768

Luminaire Tested: **14GR-LD5-32-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290768
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

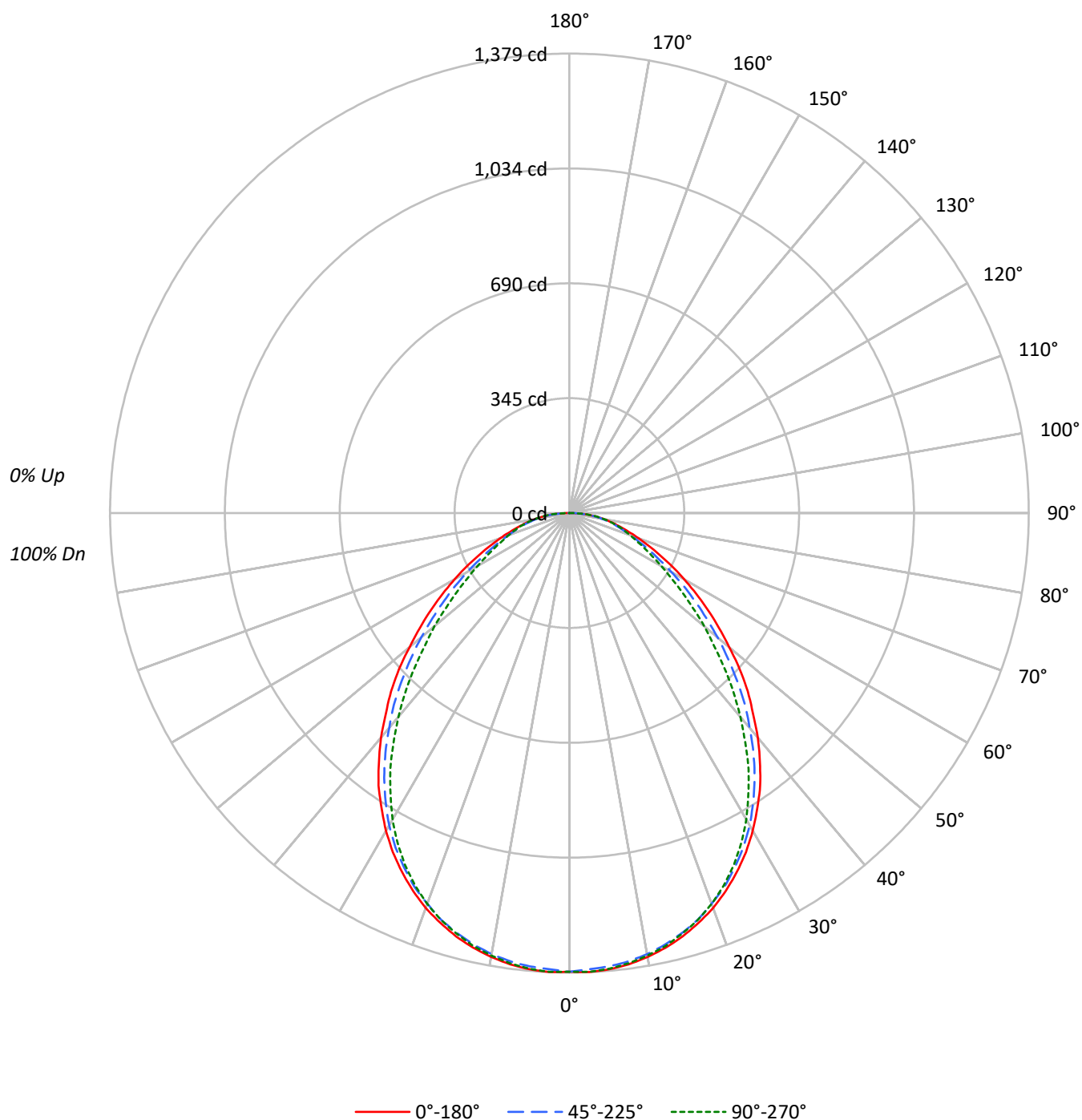
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3704	3704	3704
5°	3713	3689	3709
10°	3696	3672	3684
15°	3663	3635	3641
20°	3612	3572	3574
25°	3529	3486	3463
30°	3421	3362	3299
35°	3281	3186	3081
40°	3091	2958	2803
45°	2882	2708	2506
50°	2620	2429	2213
55°	2385	2154	1929
60°	2139	1897	1714
65°	1907	1691	1575
70°	1735	1541	1523
75°	1621	1500	1576
80°	1630	1551	1641
85°	1701	1590	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.2
10°-20°	369.0	11.9
20°-30°	541.0	17.5
30°-40°	603.9	19.5
40°-50°	546.7	17.7
50°-60°	412.8	13.4
60°-70°	269.9	8.7
70°-80°	158.5	5.1
80°-90°	58.0	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°	1040.2	33.7
0°-40°	1644.1	53.2
0°-60°	2603.6	84.3
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1374	1372	1366	1374	1373	130
15°	1315	1313	1305	1312	1307	371
25°	1189	1184	1174	1172	1166	547
35°	999	990	970	948	938	622
45°	757	746	712	673	659	582
55°	508	497	459	423	411	455
65°	300	290	266	250	247	301
75°	156	152	144	147	152	167
85°	55	53	52	58	59	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.6	1376.6	1376.6	1376.6	1376.6
2.5°	1378.8	1376.6	1370.0	1378.8	1378.0
5°	1374.4	1371.5	1365.7	1373.7	1372.9
7.5°	1365.7	1362.8	1357.0	1364.2	1362.8
10°	1352.6	1349.7	1343.9	1351.9	1348.3
12.5°	1336.0	1333.1	1326.5	1333.8	1330.9
15°	1314.9	1312.8	1304.8	1312.0	1306.9
17.5°	1289.5	1285.9	1280.1	1284.5	1280.8
20°	1261.3	1256.9	1247.5	1251.8	1248.2
22.5°	1227.2	1221.4	1214.8	1214.8	1209.8
25°	1188.7	1184.4	1174.2	1172.0	1166.2
27.5°	1147.4	1143.8	1130.7	1127.1	1116.9
30°	1101.0	1095.9	1082.1	1070.5	1061.8
32.5°	1049.5	1045.8	1027.0	1011.8	999.4
35°	998.7	990.0	969.7	947.9	937.8
37.5°	939.2	932.7	907.3	880.5	866.7
40°	879.8	871.8	842.0	812.3	797.8
42.5°	815.2	808.0	779.7	744.1	728.9
45°	757.2	745.6	711.5	673.1	658.6
47.5°	693.4	681.0	644.8	604.2	587.5
50°	625.9	617.9	580.2	541.1	528.7
52.5°	565.7	553.4	517.8	479.4	466.4
55°	508.4	496.8	459.1	422.8	411.2
57.5°	451.1	438.1	405.4	372.8	361.2
60°	397.5	384.4	352.5	325.6	318.4
62.5°	348.9	334.4	306.1	285.0	280.0
65°	299.5	290.1	265.5	250.2	247.3
67.5°	258.2	246.6	227.0	219.8	218.3
70°	220.5	212.5	195.8	193.6	193.6
72.5°	186.4	179.9	167.5	169.0	171.2
75°	155.9	151.6	144.3	147.2	151.6
77.5°	129.8	125.5	121.1	125.5	128.4
80°	105.2	100.8	100.1	103.7	105.9
82.5°	79.1	75.4	76.2	82.0	84.1
85°	55.1	52.9	51.5	58.0	58.7
87.5°	28.3	26.8	26.1	31.2	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)