

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: P290573

Luminaire Tested: **14GR-LD5-32-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

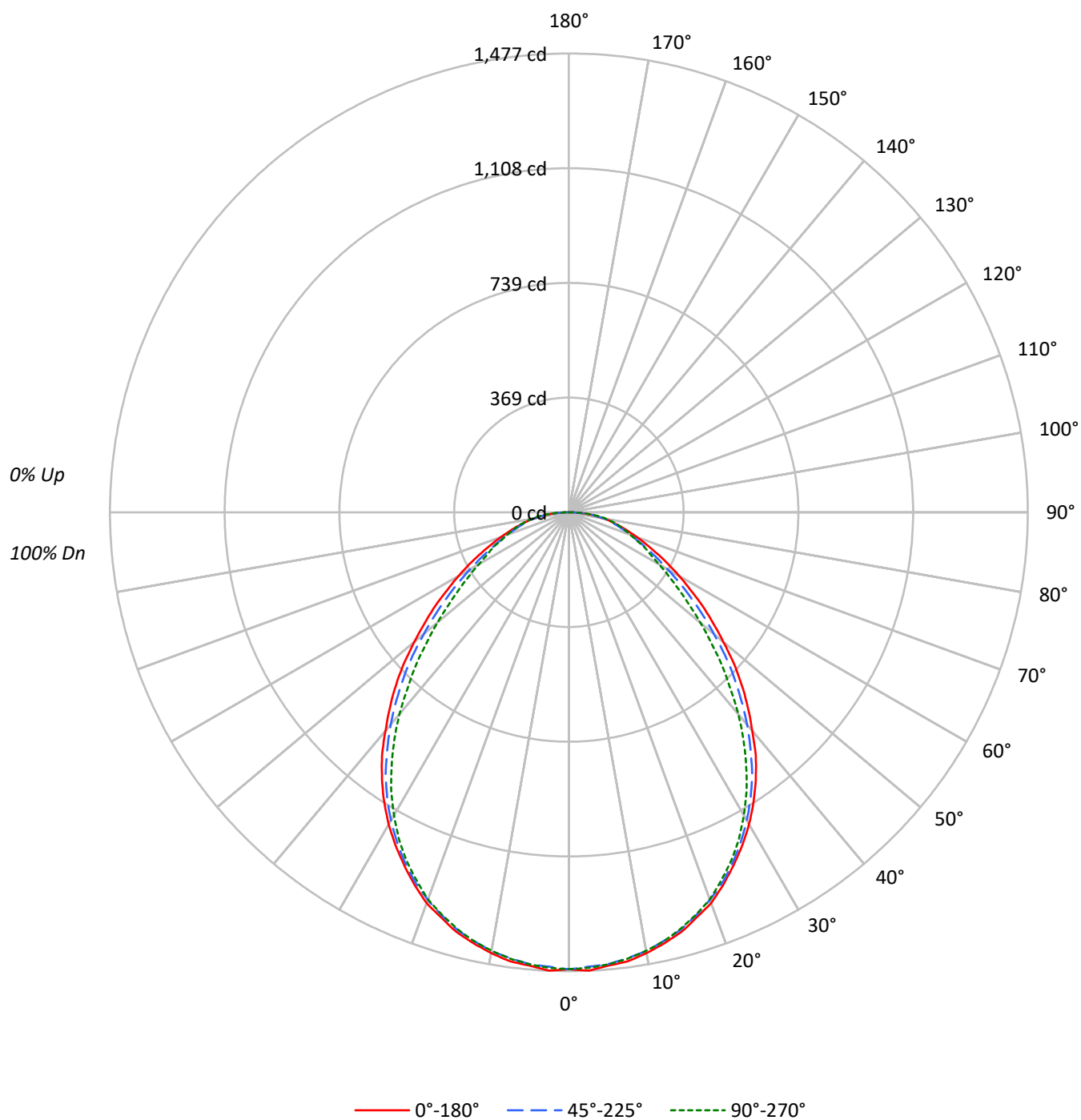
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	3957	3957	3957
5°	3956	3942	3944
10°	3936	3918	3916
15°	3896	3874	3867
20°	3834	3801	3797
25°	3723	3699	3672
30°	3603	3559	3498
35°	3445	3378	3267
40°	3225	3136	2981
45°	2995	2861	2653
50°	2717	2548	2310
55°	2458	2251	2018
60°	2207	1972	1799
65°	1981	1761	1723
70°	1828	1640	1657
75°	1746	1645	1737
80°	1765	1754	1894
85°	1828	1806	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	4.2
10°-20°	392.5	12.0
20°-30°	573.2	17.5
30°-40°	638.7	19.5
40°-50°	575.5	17.6
50°-60°	430.2	13.2
60°-70°	283.8	8.7
70°-80°	173.2	5.3
80°-90°	64.3	2.0
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°	1104.5	33.8
0°-40°	1743.1	53.3
0°-60°	2748.8	84.1
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1465	1463	1459	1467	1460	139
15°	1399	1393	1390	1399	1388	394
25°	1254	1250	1246	1248	1237	577
35°	1049	1040	1028	1010	995	654
45°	787	779	752	717	697	606
55°	524	516	480	440	430	469
65°	311	301	277	265	271	312
75°	168	165	158	163	167	179
85°	59	57	58	64	65	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.6	1470.6	1470.6	1470.6	1470.6
2.5°	1476.6	1469.9	1463.9	1472.9	1467.6
5°	1464.6	1463.1	1459.4	1466.9	1460.1
7.5°	1457.1	1451.9	1447.4	1456.4	1448.9
10°	1440.6	1437.6	1433.9	1441.4	1433.1
12.5°	1420.4	1417.4	1413.6	1422.6	1413.6
15°	1398.6	1393.4	1390.4	1398.6	1388.2
17.5°	1367.2	1364.9	1360.4	1368.7	1358.2
20°	1338.7	1330.4	1327.4	1333.4	1325.9
22.5°	1297.5	1291.5	1290.7	1294.5	1281.7
25°	1254.0	1249.5	1245.7	1248.0	1236.7
27.5°	1208.3	1202.3	1197.8	1197.0	1185.0
30°	1159.5	1152.0	1145.3	1139.3	1125.8
32.5°	1106.3	1097.3	1088.3	1078.6	1064.3
35°	1048.6	1039.6	1028.4	1010.4	994.6
37.5°	987.9	977.4	959.4	938.4	922.7
40°	918.2	912.9	892.7	865.7	848.5
42.5°	853.0	847.0	821.5	791.5	768.3
45°	787.0	778.8	751.8	717.3	697.1
47.5°	719.6	711.3	681.3	638.6	620.6
50°	649.1	644.6	608.6	569.7	551.7
52.5°	584.6	579.4	542.7	503.7	487.2
55°	523.9	515.7	479.7	440.0	430.2
57.5°	463.2	454.2	420.5	386.8	380.0
60°	410.0	398.8	366.5	340.3	334.3
62.5°	359.8	347.0	320.1	299.8	296.8
65°	311.1	301.3	276.6	265.3	270.6
67.5°	269.1	259.3	241.4	236.9	235.4
70°	232.4	223.4	208.4	209.9	210.6
72.5°	198.6	193.4	182.1	185.9	188.9
75°	167.9	164.9	158.2	163.4	167.1
77.5°	140.2	137.9	134.9	139.4	145.4
80°	113.9	112.4	113.2	116.2	122.2
82.5°	87.7	84.7	86.9	92.9	96.7
85°	59.2	57.0	58.5	64.5	65.2
87.5°	27.7	27.7	27.0	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)