

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: P290624

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290624
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-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3367.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

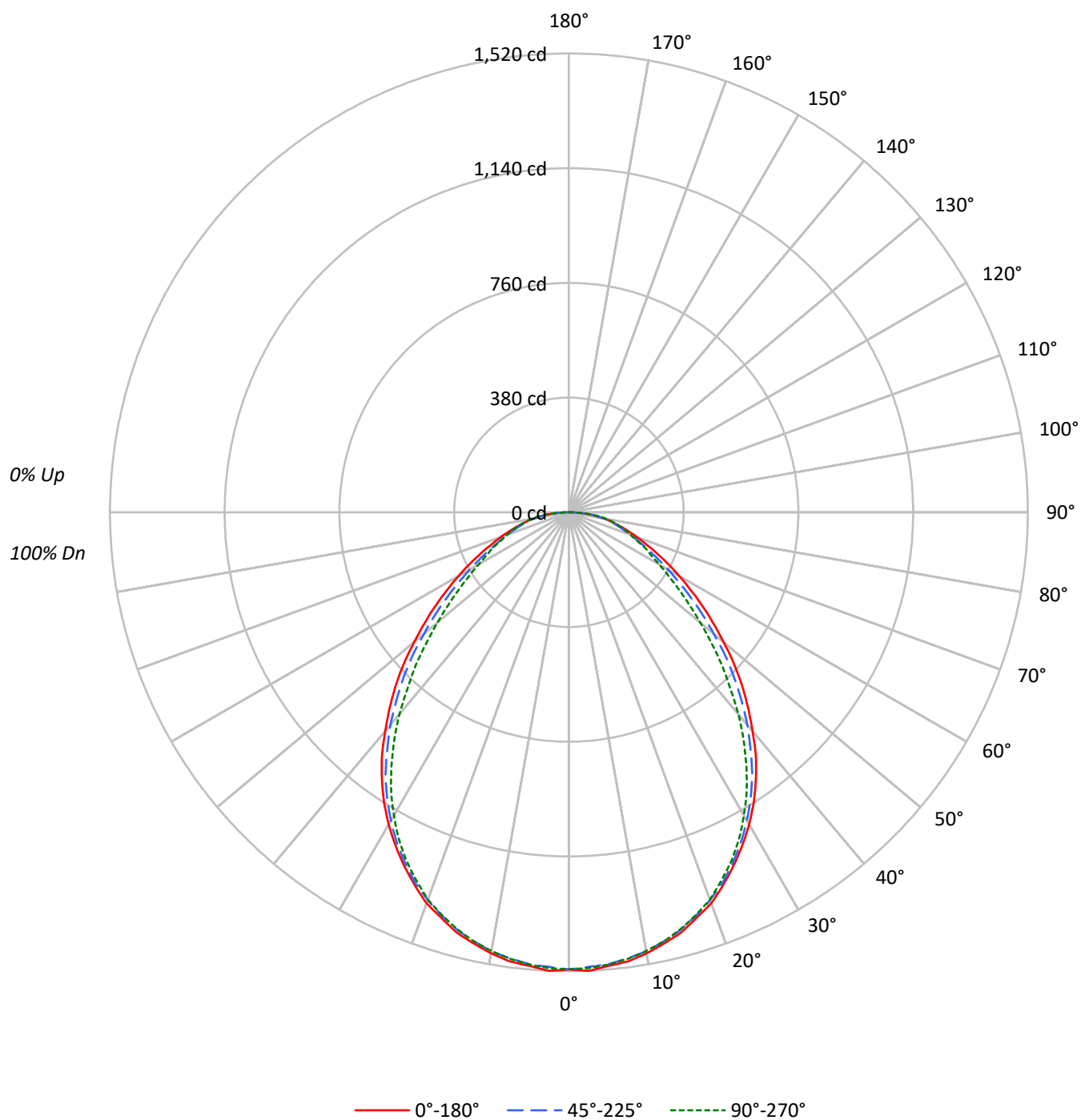
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4075	4075	4075
5°	4074	4059	4061
10°	4053	4034	4032
15°	4012	3988	3982
20°	3947	3914	3910
25°	3834	3809	3781
30°	3710	3664	3602
35°	3547	3479	3364
40°	3321	3229	3069
45°	3084	2946	2732
50°	2798	2624	2378
55°	2531	2317	2078
60°	2272	2031	1852
65°	2039	1813	1774
70°	1883	1688	1707
75°	1798	1693	1789
80°	1818	1805	1949
85°	1883	1859	2072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	4.2
10°-20°	404.1	12.0
20°-30°	590.2	17.5
30°-40°	657.6	19.5
40°-50°	592.5	17.6
50°-60°	442.9	13.2
60°-70°	292.2	8.7
70°-80°	178.3	5.3
80°-90°	66.2	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°	1137.2	33.8
0°-40°	1794.9	53.3
0°-60°	2830.3	84.1
0°-90°	3367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1508	1506	1503	1510	1503	143
15°	1440	1435	1432	1440	1429	405
25°	1291	1287	1283	1285	1273	594
35°	1080	1070	1059	1040	1024	673
45°	810	802	774	739	718	624
55°	540	531	494	453	443	483
65°	320	310	285	273	279	321
75°	173	170	163	168	172	185
85°	61	59	60	66	67	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1520.4	1513.5	1507.3	1516.5	1511.1
5°	1508.1	1506.5	1502.6	1510.4	1503.4
7.5°	1500.3	1494.9	1490.3	1499.6	1491.8
10°	1483.4	1480.3	1476.4	1484.1	1475.6
12.5°	1462.5	1459.4	1455.6	1464.8	1455.6
15°	1440.1	1434.7	1431.6	1440.1	1429.3
17.5°	1407.7	1405.4	1400.8	1409.3	1398.5
20°	1378.4	1369.9	1366.8	1373.0	1365.3
22.5°	1335.9	1329.8	1329.0	1332.9	1319.7
25°	1291.2	1286.6	1282.7	1285.0	1273.4
27.5°	1244.1	1237.9	1233.3	1232.5	1220.2
30°	1193.9	1186.2	1179.3	1173.1	1159.2
32.5°	1139.1	1129.9	1120.6	1110.6	1095.9
35°	1079.7	1070.5	1058.9	1040.4	1024.1
37.5°	1017.2	1006.4	987.9	966.3	950.1
40°	945.4	940.0	919.2	891.4	873.7
42.5°	878.3	872.1	845.9	815.0	791.1
45°	810.4	801.9	774.1	738.6	717.8
47.5°	740.9	732.4	701.5	657.6	639.0
50°	668.4	663.7	626.7	586.5	568.0
52.5°	602.0	596.6	558.8	518.6	501.7
55°	539.5	531.0	493.9	453.0	443.0
57.5°	477.0	467.7	433.0	398.2	391.3
60°	422.2	410.6	377.4	350.4	344.2
62.5°	370.5	357.3	329.5	308.7	305.6
65°	320.3	310.3	284.8	273.2	278.6
67.5°	277.1	267.0	248.5	243.9	242.3
70°	239.3	230.0	214.6	216.1	216.9
72.5°	204.5	199.1	187.5	191.4	194.5
75°	172.9	169.8	162.8	168.2	172.1
77.5°	144.3	142.0	138.9	143.6	149.7
80°	117.3	115.8	116.5	119.6	125.8
82.5°	90.3	87.2	89.5	95.7	99.6
85°	61.0	58.7	60.2	66.4	67.1
87.5°	28.6	28.6	27.8	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)