

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: P290622

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290622
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

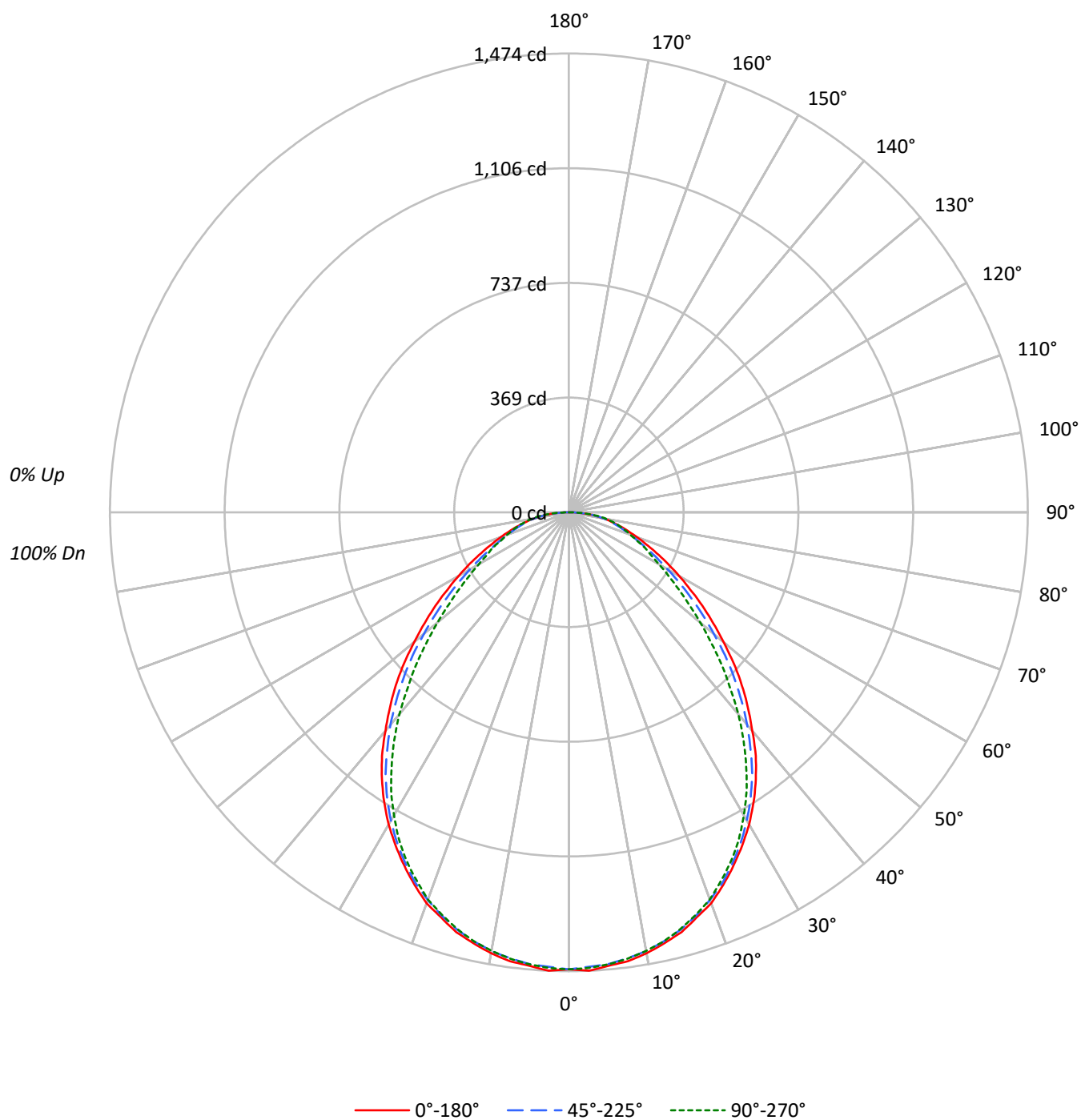
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3950	3950	3950
5°	3949	3935	3937
10°	3929	3911	3909
15°	3889	3866	3860
20°	3826	3794	3790
25°	3717	3692	3665
30°	3596	3552	3492
35°	3438	3372	3261
40°	3220	3130	2975
45°	2990	2856	2648
50°	2712	2543	2305
55°	2454	2246	2015
60°	2202	1969	1796
65°	1977	1758	1720
70°	1825	1637	1654
75°	1743	1642	1734
80°	1762	1751	1891
85°	1825	1803	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	4.2
10°-20°	391.8	12.0
20°-30°	572.1	17.5
30°-40°	637.5	19.5
40°-50°	574.4	17.6
50°-60°	429.4	13.2
60°-70°	283.2	8.7
70°-80°	172.9	5.3
80°-90°	64.1	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°	1102.4	33.8
0°-40°	1740.0	53.3
0°-60°	2743.7	84.1
0°-90°	3264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1462	1460	1457	1464	1457	139
15°	1396	1391	1388	1396	1386	393
25°	1252	1247	1244	1246	1234	576
35°	1047	1038	1026	1008	993	653
45°	786	777	750	716	696	605
55°	523	515	479	439	429	468
65°	310	301	276	265	270	311
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°	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1473.9	1467.2	1461.2	1470.1	1464.9
5°	1461.9	1460.4	1456.7	1464.2	1457.4
7.5°	1454.4	1449.2	1444.7	1453.7	1446.2
10°	1438.0	1435.0	1431.2	1438.7	1430.5
12.5°	1417.8	1414.8	1411.0	1420.0	1411.0
15°	1396.1	1390.8	1387.8	1396.1	1385.6
17.5°	1364.7	1362.4	1357.9	1366.2	1355.7
20°	1336.2	1328.0	1325.0	1331.0	1323.5
22.5°	1295.1	1289.1	1288.3	1292.1	1279.4
25°	1251.7	1247.2	1243.5	1245.7	1234.5
27.5°	1206.0	1200.1	1195.6	1194.8	1182.9
30°	1157.4	1149.9	1143.2	1137.2	1123.7
32.5°	1104.3	1095.3	1086.3	1076.6	1062.4
35°	1046.7	1037.7	1026.5	1008.5	992.8
37.5°	986.1	975.6	957.7	936.7	921.0
40°	916.5	911.3	891.1	864.1	846.9
42.5°	851.4	845.4	820.0	790.1	766.9
45°	785.6	777.3	750.4	716.0	695.8
47.5°	718.2	710.0	680.1	637.4	619.5
50°	647.9	643.4	607.5	568.6	550.7
52.5°	583.6	578.3	541.7	502.8	486.3
55°	523.0	514.7	478.8	439.2	429.4
57.5°	462.4	453.4	419.7	386.1	379.3
60°	409.2	398.0	365.9	339.7	333.7
62.5°	359.1	346.4	319.5	299.3	296.3
65°	310.5	300.8	276.1	264.9	270.1
67.5°	268.6	258.9	240.9	236.4	234.9
70°	231.9	223.0	208.0	209.5	210.2
72.5°	198.3	193.0	181.8	185.5	188.5
75°	167.6	164.6	157.9	163.1	166.8
77.5°	139.9	137.7	134.7	139.2	145.1
80°	113.7	112.2	113.0	116.0	122.0
82.5°	87.5	84.5	86.8	92.8	96.5
85°	59.1	56.9	58.4	64.3	65.1
87.5°	27.7	27.7	26.9	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)