

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: P290720

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290720
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2888.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

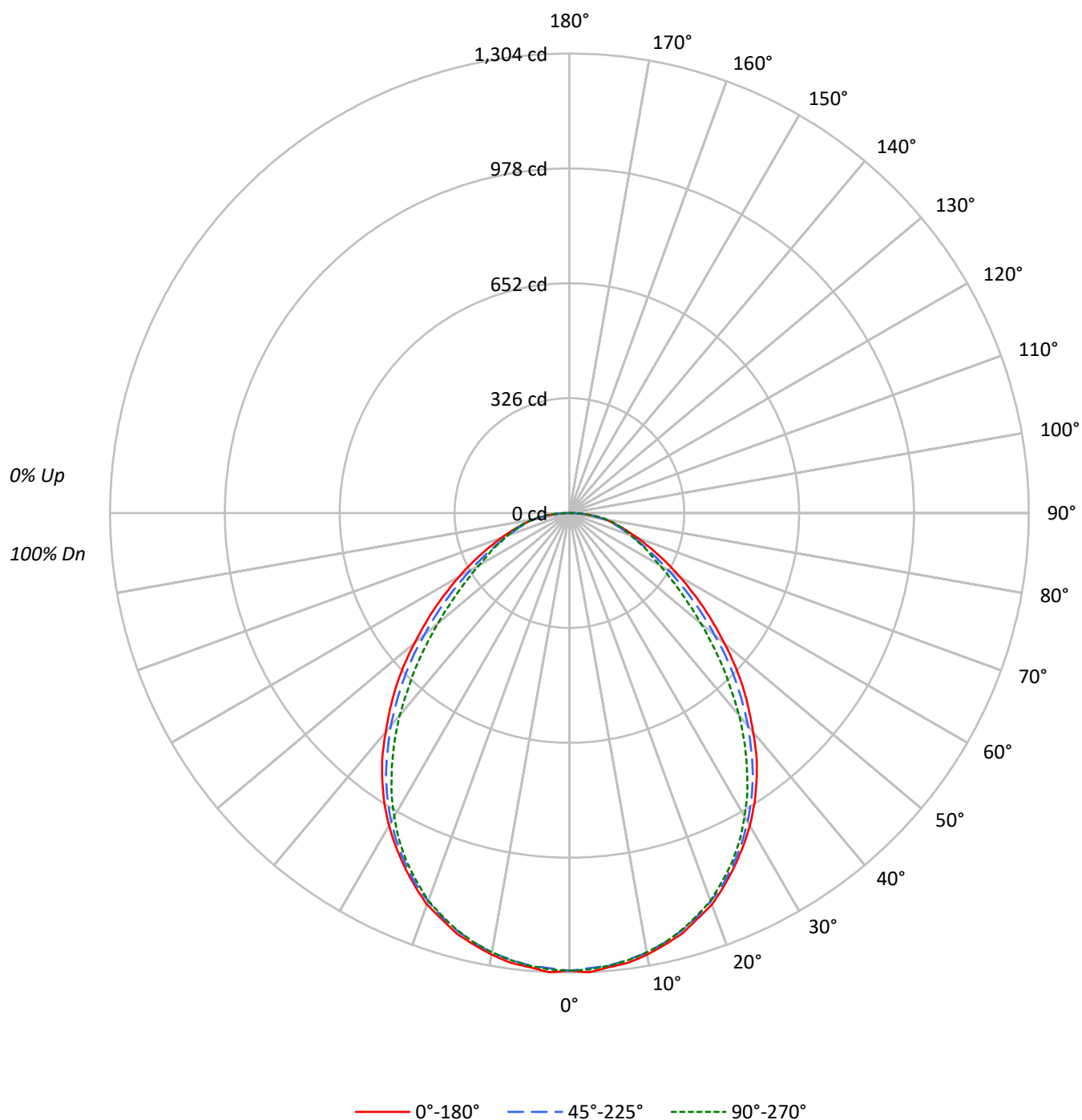
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3495	3495	3495
5°	3494	3482	3483
10°	3477	3460	3459
15°	3441	3421	3416
20°	3386	3357	3353
25°	3288	3267	3243
30°	3182	3143	3090
35°	3042	2984	2886
40°	2849	2770	2633
45°	2645	2527	2343
50°	2400	2250	2040
55°	2171	1988	1783
60°	1949	1742	1589
65°	1749	1556	1522
70°	1614	1448	1463
75°	1542	1452	1535
80°	1559	1550	1672
85°	1615	1593	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	4.2
10°-20°	346.6	12.0
20°-30°	506.2	17.5
30°-40°	564.1	19.5
40°-50°	508.2	17.6
50°-60°	379.9	13.2
60°-70°	250.6	8.7
70°-80°	153.0	5.3
80°-90°	56.8	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°	975.5	33.8
0°-40°	1539.5	53.3
0°-60°	2427.7	84.1
0°-90°	2888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1294	1292	1289	1296	1290	123
15°	1235	1231	1228	1235	1226	348
25°	1108	1104	1100	1102	1092	510
35°	926	918	908	892	878	577
45°	695	688	664	634	616	535
55°	463	455	424	389	380	414
65°	275	266	244	234	239	275
75°	148	146	140	144	148	158
85°	52	50	52	57	58	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.8	1298.8	1298.8	1298.8	1298.8
2.5°	1304.1	1298.1	1292.8	1300.8	1296.2
5°	1293.5	1292.2	1288.9	1295.5	1289.5
7.5°	1286.9	1282.3	1278.3	1286.2	1279.6
10°	1272.3	1269.7	1266.4	1273.0	1265.7
12.5°	1254.5	1251.8	1248.5	1256.4	1248.5
15°	1235.3	1230.6	1228.0	1235.3	1226.0
17.5°	1207.5	1205.5	1201.5	1208.8	1199.5
20°	1182.3	1175.0	1172.4	1177.7	1171.0
22.5°	1145.9	1140.6	1139.9	1143.2	1132.0
25°	1107.5	1103.5	1100.2	1102.2	1092.3
27.5°	1067.1	1061.8	1057.8	1057.2	1046.6
30°	1024.1	1017.5	1011.5	1006.2	994.3
32.5°	977.1	969.1	961.2	952.6	940.0
35°	926.1	918.2	908.2	892.4	878.4
37.5°	872.5	863.2	847.3	828.8	814.9
40°	810.9	806.3	788.4	764.6	749.4
42.5°	753.3	748.0	725.5	699.1	678.5
45°	695.1	687.8	664.0	633.5	615.6
47.5°	635.5	628.2	601.7	564.0	548.1
50°	573.3	569.3	537.5	503.1	487.2
52.5°	516.3	511.7	479.3	444.9	430.3
55°	462.7	455.4	423.7	388.6	380.0
57.5°	409.1	401.2	371.4	341.6	335.6
60°	362.1	352.2	323.7	300.5	295.2
62.5°	317.8	306.5	282.7	264.8	262.1
65°	274.7	266.1	244.3	234.3	239.0
67.5°	237.7	229.0	213.2	209.2	207.9
70°	205.2	197.3	184.0	185.4	186.0
72.5°	175.4	170.8	160.9	164.2	166.8
75°	148.3	145.6	139.7	144.3	147.6
77.5°	123.8	121.8	119.2	123.1	128.4
80°	100.6	99.3	100.0	102.6	107.9
82.5°	77.5	74.8	76.8	82.1	85.4
85°	52.3	50.3	51.6	56.9	57.6
87.5°	24.5	24.5	23.8	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)