

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: P290764

Luminaire Tested: **14GR-LD5-28-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290764
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-LD5-28-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2881.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

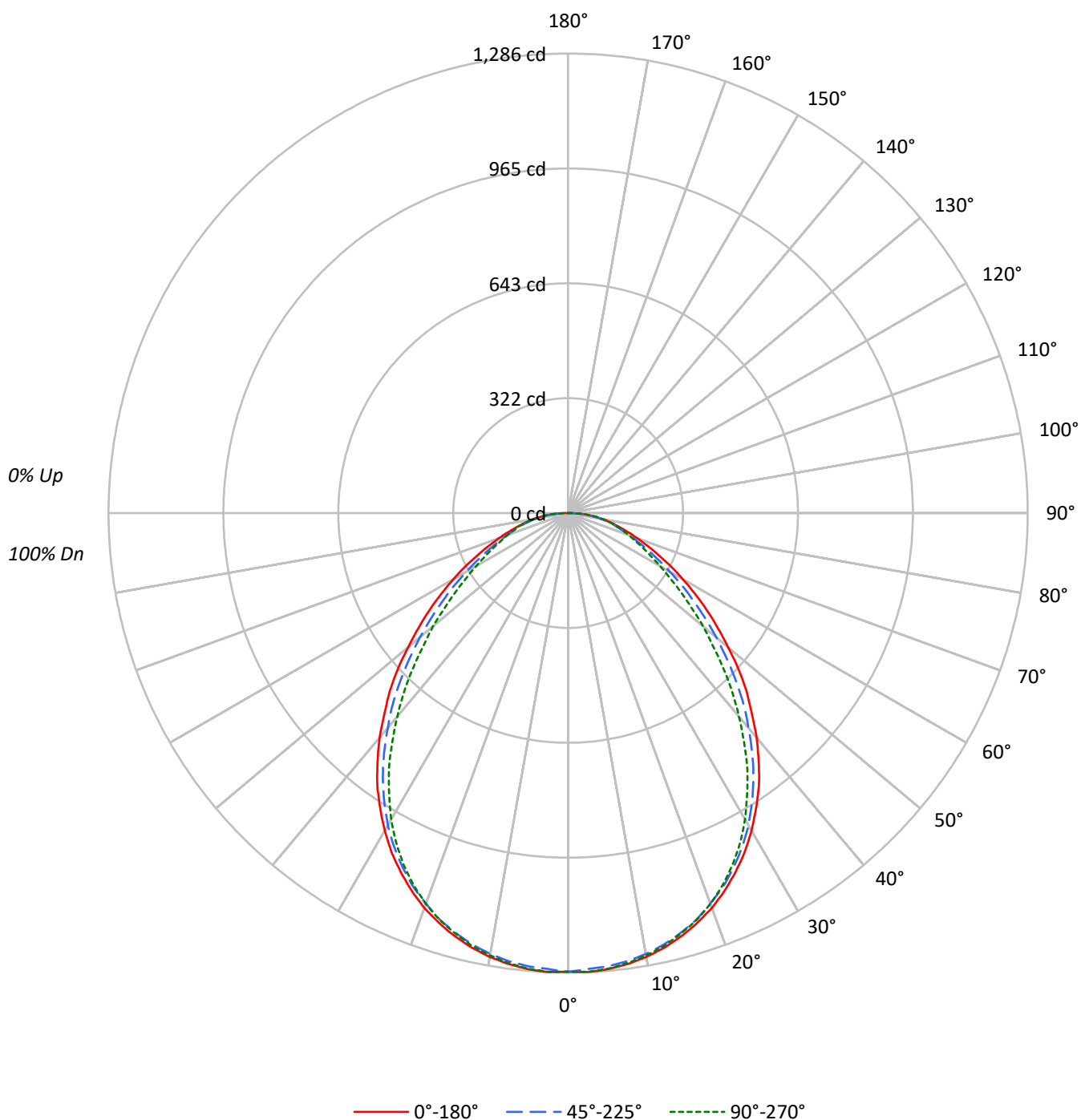
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3454	3454	3454
5°	3461	3440	3458
10°	3446	3424	3435
15°	3416	3389	3395
20°	3367	3331	3333
25°	3291	3251	3229
30°	3190	3135	3076
35°	3059	2970	2872
40°	2882	2758	2613
45°	2687	2525	2337
50°	2443	2265	2064
55°	2224	2008	1799
60°	1995	1769	1598
65°	1778	1576	1468
70°	1618	1437	1421
75°	1512	1399	1469
80°	1520	1446	1530
85°	1587	1482	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	4.2
10°-20°	344.1	11.9
20°-30°	504.5	17.5
30°-40°	563.0	19.5
40°-50°	509.8	17.7
50°-60°	384.9	13.4
60°-70°	251.6	8.7
70°-80°	147.8	5.1
80°-90°	54.1	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°	969.9	33.7
0°-40°	1532.9	53.2
0°-60°	2427.5	84.3
0°-90°	2881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1281	1279	1273	1281	1280	122
15°	1226	1224	1216	1223	1219	345
25°	1108	1104	1095	1093	1087	510
35°	931	923	904	884	874	580
45°	706	695	663	628	614	542
55°	474	463	428	394	383	424
65°	279	270	248	233	231	280
75°	145	141	135	137	141	156
85°	51	49	48	54	55	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.5	1283.5	1283.5	1283.5	1283.5
2.5°	1285.5	1283.5	1277.4	1285.5	1284.8
5°	1281.4	1278.7	1273.3	1280.8	1280.1
7.5°	1273.3	1270.6	1265.2	1272.0	1270.6
10°	1261.2	1258.4	1253.0	1260.5	1257.1
12.5°	1245.6	1242.9	1236.8	1243.6	1240.9
15°	1226.0	1224.0	1216.5	1223.3	1218.6
17.5°	1202.3	1198.9	1193.5	1197.6	1194.2
20°	1175.9	1171.9	1163.1	1167.2	1163.8
22.5°	1144.2	1138.8	1132.7	1132.7	1127.9
25°	1108.3	1104.3	1094.8	1092.8	1087.4
27.5°	1069.8	1066.4	1054.2	1050.8	1041.4
30°	1026.5	1021.8	1008.9	998.1	990.0
32.5°	978.5	975.1	957.5	943.3	931.8
35°	931.2	923.0	904.1	883.8	874.4
37.5°	875.7	869.6	846.0	820.9	808.1
40°	820.3	812.8	785.1	757.4	743.8
42.5°	760.1	753.3	726.9	693.8	679.6
45°	706.0	695.2	663.4	627.5	614.0
47.5°	646.5	635.0	601.2	563.3	547.7
50°	583.6	576.1	541.0	504.5	493.0
52.5°	527.5	516.0	482.8	447.0	434.8
55°	474.0	463.2	428.0	394.2	383.4
57.5°	420.6	408.4	378.0	347.6	336.8
60°	370.6	358.4	328.6	303.6	296.9
62.5°	325.3	311.7	285.4	265.8	261.0
65°	279.3	270.5	247.5	233.3	230.6
67.5°	240.7	229.9	211.7	204.9	203.5
70°	205.6	198.1	182.6	180.6	180.6
72.5°	173.8	167.7	156.2	157.6	159.6
75°	145.4	141.3	134.6	137.3	141.3
77.5°	121.0	117.0	112.9	117.0	119.7
80°	98.1	94.0	93.3	96.7	98.7
82.5°	73.7	70.3	71.0	76.4	78.4
85°	51.4	49.4	48.0	54.1	54.8
87.5°	26.4	25.0	24.3	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)