

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: P290808

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290808
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-L82765-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: 2814.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

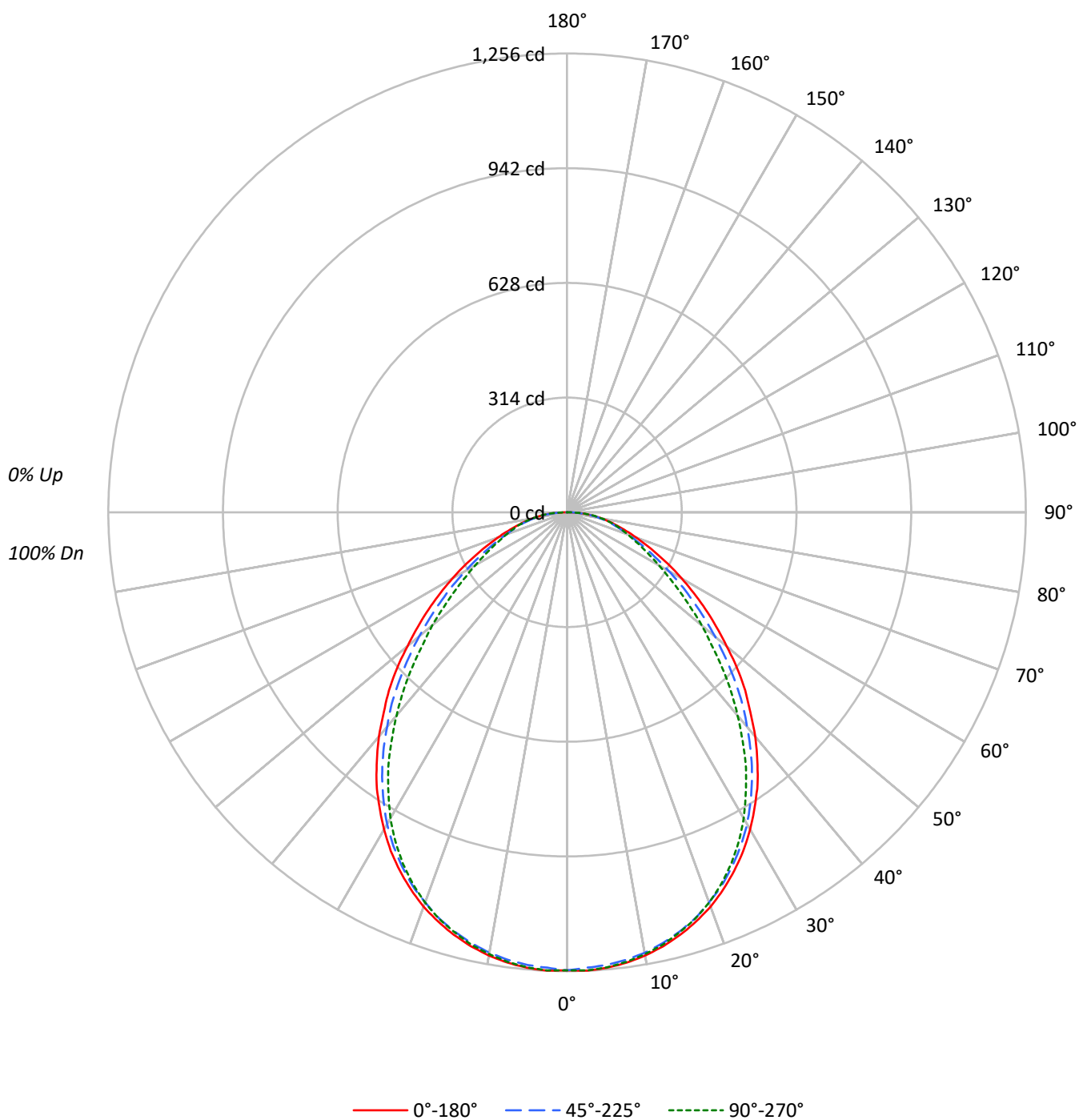
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3373	3373	3373
5°	3381	3360	3377
10°	3366	3344	3355
15°	3336	3310	3316
20°	3289	3253	3255
25°	3214	3175	3154
30°	3115	3062	3005
35°	2988	2901	2805
40°	2814	2694	2552
45°	2624	2466	2282
50°	2386	2212	2016
55°	2172	1962	1757
60°	1948	1728	1561
65°	1737	1539	1434
70°	1580	1403	1388
75°	1476	1366	1435
80°	1485	1412	1494
85°	1550	1448	1652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	4.2
10°-20°	336.0	11.9
20°-30°	492.7	17.5
30°-40°	549.9	19.5
40°-50°	497.9	17.7
50°-60°	375.9	13.4
60°-70°	245.8	8.7
70°-80°	144.3	5.1
80°-90°	52.8	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°	947.3	33.7
0°-40°	1497.3	53.2
0°-60°	2371.1	84.3
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1252	1249	1244	1251	1250	119
15°	1198	1196	1188	1195	1190	337
25°	1083	1079	1069	1067	1062	498
35°	910	902	883	863	854	566
45°	690	679	648	613	600	530
55°	463	452	418	385	374	414
65°	273	264	242	228	225	274
75°	142	138	131	134	138	153
85°	50	48	47	53	54	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.6	1253.6	1253.6	1253.6	1253.6
2.5°	1255.6	1253.6	1247.7	1255.6	1254.9
5°	1251.6	1249.0	1243.7	1251.0	1250.3
7.5°	1243.7	1241.1	1235.8	1242.4	1241.1
10°	1231.8	1229.2	1223.9	1231.2	1227.9
12.5°	1216.6	1214.0	1208.0	1214.6	1212.0
15°	1197.5	1195.5	1188.2	1194.8	1190.2
17.5°	1174.4	1171.1	1165.8	1169.7	1166.4
20°	1148.6	1144.6	1136.1	1140.0	1136.7
22.5°	1117.6	1112.3	1106.3	1106.3	1101.7
25°	1082.6	1078.6	1069.3	1067.4	1062.1
27.5°	1044.9	1041.6	1029.7	1026.4	1017.2
30°	1002.6	998.0	985.5	974.9	967.0
32.5°	955.7	952.4	935.3	921.4	910.2
35°	909.5	901.6	883.1	863.3	854.0
37.5°	855.3	849.4	826.3	801.8	789.3
40°	801.2	793.9	766.8	739.8	726.5
42.5°	742.4	735.8	710.0	677.7	663.8
45°	689.6	679.0	647.9	612.9	599.7
47.5°	631.4	620.2	587.2	550.2	535.0
50°	570.0	562.7	528.4	492.7	481.5
52.5°	515.2	504.0	471.6	436.6	424.7
55°	463.0	452.4	418.1	385.1	374.5
57.5°	410.8	398.9	369.2	339.5	328.9
60°	362.0	350.1	321.0	296.6	290.0
62.5°	317.7	304.5	278.7	259.6	255.0
65°	272.8	264.2	241.7	227.9	225.2
67.5°	235.1	224.6	206.7	200.1	198.8
70°	200.8	193.5	178.3	176.4	176.4
72.5°	169.7	163.8	152.6	153.9	155.9
75°	142.0	138.0	131.4	134.1	138.0
77.5°	118.2	114.3	110.3	114.3	116.9
80°	95.8	91.8	91.1	94.5	96.4
82.5°	72.0	68.7	69.4	74.6	76.6
85°	50.2	48.2	46.9	52.8	53.5
87.5°	25.8	24.4	23.8	28.4	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)