

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: P290814

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290814
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

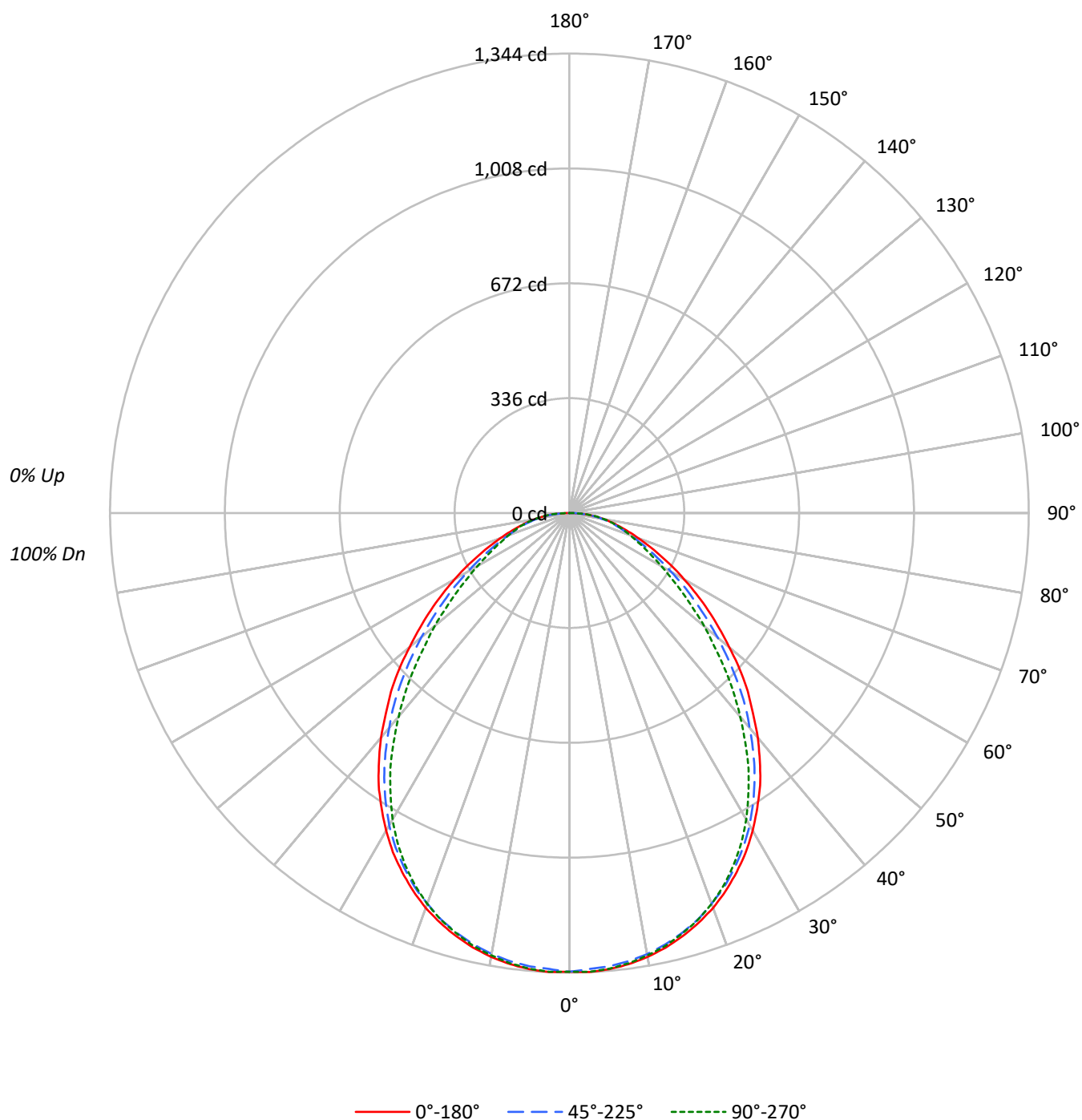
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3610	3610	3610
5°	3618	3595	3614
10°	3602	3578	3590
15°	3570	3542	3548
20°	3519	3481	3483
25°	3439	3397	3374
30°	3333	3276	3215
35°	3197	3104	3002
40°	3012	2882	2731
45°	2808	2638	2442
50°	2553	2367	2157
55°	2324	2099	1880
60°	2084	1849	1670
65°	1859	1647	1535
70°	1690	1501	1485
75°	1579	1462	1536
80°	1588	1511	1599
85°	1658	1550	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	4.2
10°-20°	359.6	11.9
20°-30°	527.2	17.5
30°-40°	588.4	19.5
40°-50°	532.7	17.7
50°-60°	402.3	13.4
60°-70°	262.9	8.7
70°-80°	154.4	5.1
80°-90°	56.5	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°	1013.6	33.7
0°-40°	1602.1	53.2
0°-60°	2537.1	84.3
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1339	1336	1331	1339	1338	127
15°	1281	1279	1271	1278	1274	361
25°	1158	1154	1144	1142	1136	533
35°	973	965	945	924	914	606
45°	738	726	693	656	642	567
55°	495	484	447	412	401	443
65°	292	283	259	244	241	293
75°	152	148	141	144	148	163
85°	54	52	50	56	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1343.5	1341.4	1335.0	1343.5	1342.8
5°	1339.3	1336.4	1330.8	1338.6	1337.8
7.5°	1330.8	1328.0	1322.3	1329.4	1328.0
10°	1318.1	1315.2	1309.6	1317.4	1313.8
12.5°	1301.8	1299.0	1292.6	1299.7	1296.9
15°	1281.3	1279.2	1271.4	1278.5	1273.5
17.5°	1256.6	1253.0	1247.4	1251.6	1248.1
20°	1229.0	1224.8	1215.6	1219.8	1216.3
22.5°	1195.8	1190.1	1183.8	1183.8	1178.8
25°	1158.3	1154.1	1144.2	1142.1	1136.4
27.5°	1118.1	1114.5	1101.8	1098.3	1088.4
30°	1072.8	1067.9	1054.4	1043.1	1034.7
32.5°	1022.6	1019.1	1000.7	985.9	973.9
35°	973.2	964.7	944.9	923.7	913.8
37.5°	915.2	908.9	884.1	858.0	844.5
40°	857.3	849.5	820.5	791.5	777.4
42.5°	794.4	787.3	759.7	725.1	710.3
45°	737.8	726.5	693.3	655.8	641.7
47.5°	675.6	663.6	628.3	588.7	572.5
50°	609.9	602.1	565.4	527.2	515.2
52.5°	551.3	539.2	504.6	467.2	454.4
55°	495.4	484.1	447.4	412.0	400.7
57.5°	439.6	426.9	395.1	363.3	352.0
60°	387.3	374.6	343.5	317.3	310.3
62.5°	339.9	325.8	298.2	277.7	272.8
65°	291.9	282.7	258.7	243.8	241.0
67.5°	251.6	240.3	221.2	214.1	212.7
70°	214.8	207.1	190.8	188.7	188.7
72.5°	181.6	175.3	163.3	164.7	166.8
75°	151.9	147.7	140.6	143.5	147.7
77.5°	126.5	122.3	118.0	122.3	125.1
80°	102.5	98.2	97.5	101.1	103.2
82.5°	77.0	73.5	74.2	79.9	82.0
85°	53.7	51.6	50.2	56.5	57.2
87.5°	27.6	26.1	25.4	30.4	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)