

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: P290881

Luminaire Tested: **14GR-LD5-43-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290881
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-LD5-43-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

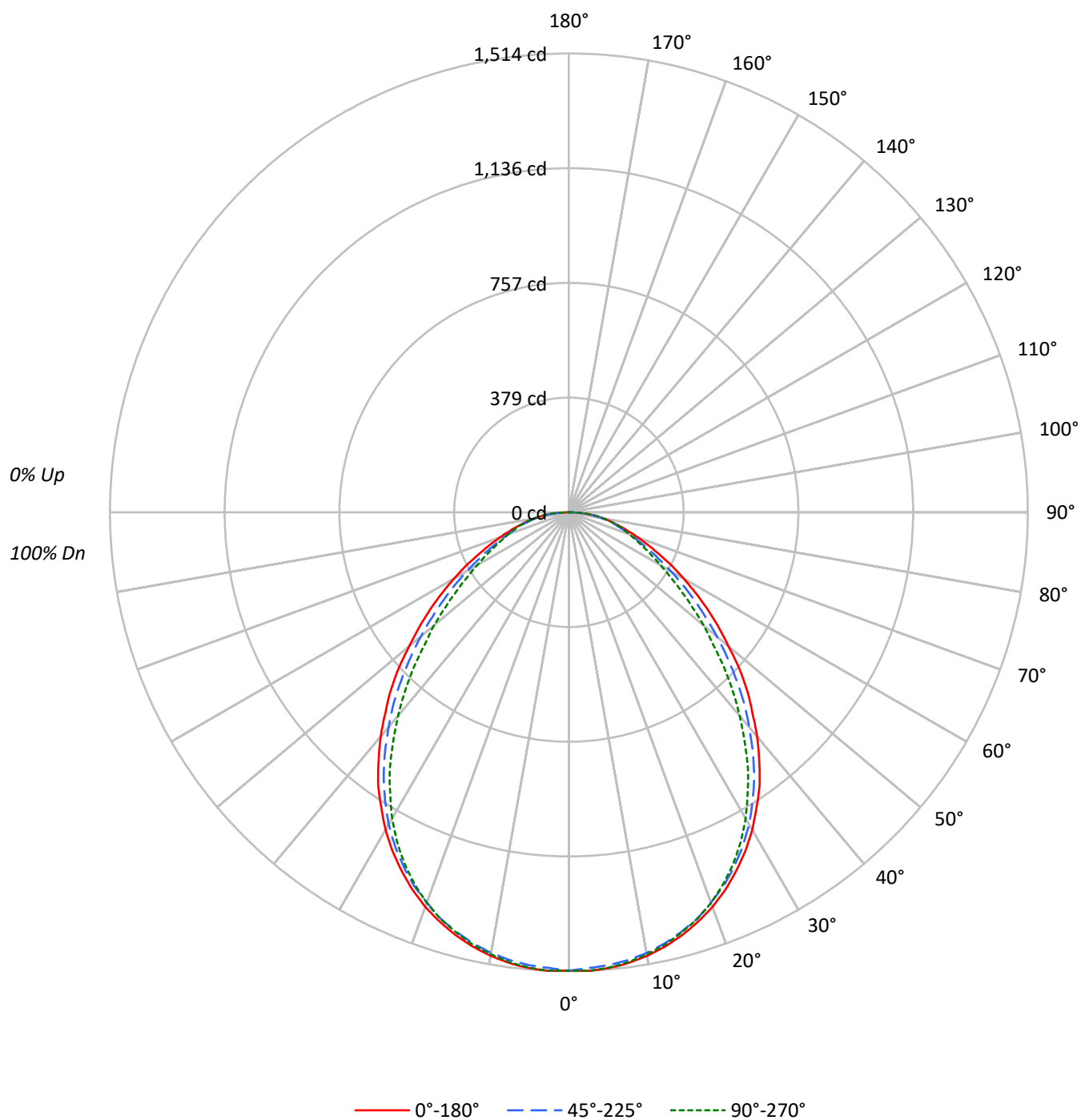
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	4069	4069	4069
5°	4078	4052	4073
10°	4060	4034	4047
15°	4024	3992	3999
20°	3967	3924	3926
25°	3877	3829	3804
30°	3758	3693	3624
35°	3604	3499	3384
40°	3394	3249	3078
45°	3165	2974	2753
50°	2878	2668	2431
55°	2620	2366	2119
60°	2350	2084	1882
65°	2095	1857	1730
70°	1906	1692	1674
75°	1781	1648	1731
80°	1790	1703	1802
85°	1868	1748	1991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	4.2
10°-20°	405.3	11.9
20°-30°	594.3	17.5
30°-40°	663.3	19.5
40°-50°	600.5	17.7
50°-60°	453.4	13.4
60°-70°	296.4	8.7
70°-80°	174.1	5.1
80°-90°	63.7	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°	1142.6	33.7
0°-40°	1805.9	53.2
0°-60°	2859.8	84.3
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1510	1506	1500	1509	1508	143
15°	1444	1442	1433	1441	1436	407
25°	1306	1301	1290	1287	1281	601
35°	1097	1087	1065	1041	1030	683
45°	832	819	782	739	723	639
55°	558	546	504	464	452	500
65°	329	319	292	275	272	330
75°	171	166	158	162	166	184
85°	60	58	57	64	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.0	1512.0	1512.0	1512.0	1512.0
2.5°	1514.4	1512.0	1504.8	1514.4	1513.6
5°	1509.6	1506.4	1500.1	1508.8	1508.0
7.5°	1500.1	1496.9	1490.5	1498.5	1496.9
10°	1485.7	1482.5	1476.2	1484.9	1480.9
12.5°	1467.4	1464.2	1457.0	1465.0	1461.8
15°	1444.3	1441.9	1433.1	1441.1	1435.5
17.5°	1416.4	1412.4	1406.1	1410.8	1406.9
20°	1385.3	1380.6	1370.2	1375.0	1371.0
22.5°	1347.9	1341.5	1334.4	1334.4	1328.8
25°	1305.7	1300.9	1289.7	1287.4	1281.0
27.5°	1260.3	1256.3	1241.9	1238.0	1226.8
30°	1209.3	1203.7	1188.6	1175.8	1166.3
32.5°	1152.7	1148.7	1128.0	1111.3	1097.8
35°	1097.0	1087.4	1065.1	1041.2	1030.0
37.5°	1031.6	1024.5	996.6	967.1	952.0
40°	966.3	957.6	924.9	892.2	876.3
42.5°	895.4	887.4	856.4	817.3	800.6
45°	831.7	818.9	781.5	739.3	723.3
47.5°	761.6	748.0	708.2	663.6	645.3
50°	687.5	678.7	637.3	594.3	580.7
52.5°	621.4	607.8	568.8	526.6	512.2
55°	558.4	545.7	504.3	464.4	451.7
57.5°	495.5	481.2	445.3	409.5	396.7
60°	436.6	422.2	387.2	357.7	349.7
62.5°	383.2	367.2	336.2	313.1	307.5
65°	329.0	318.7	291.6	274.8	271.7
67.5°	283.6	270.9	249.3	241.4	239.8
70°	242.2	233.4	215.1	212.7	212.7
72.5°	204.7	197.6	184.0	185.6	188.0
75°	171.3	166.5	158.5	161.7	166.5
77.5°	142.6	137.8	133.0	137.8	141.0
80°	115.5	110.7	109.9	113.9	116.3
82.5°	86.8	82.8	83.6	90.0	92.4
85°	60.5	58.2	56.6	63.7	64.5
87.5°	31.1	29.5	28.7	34.3	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)