

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: P290902

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290902
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-LD5-24-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

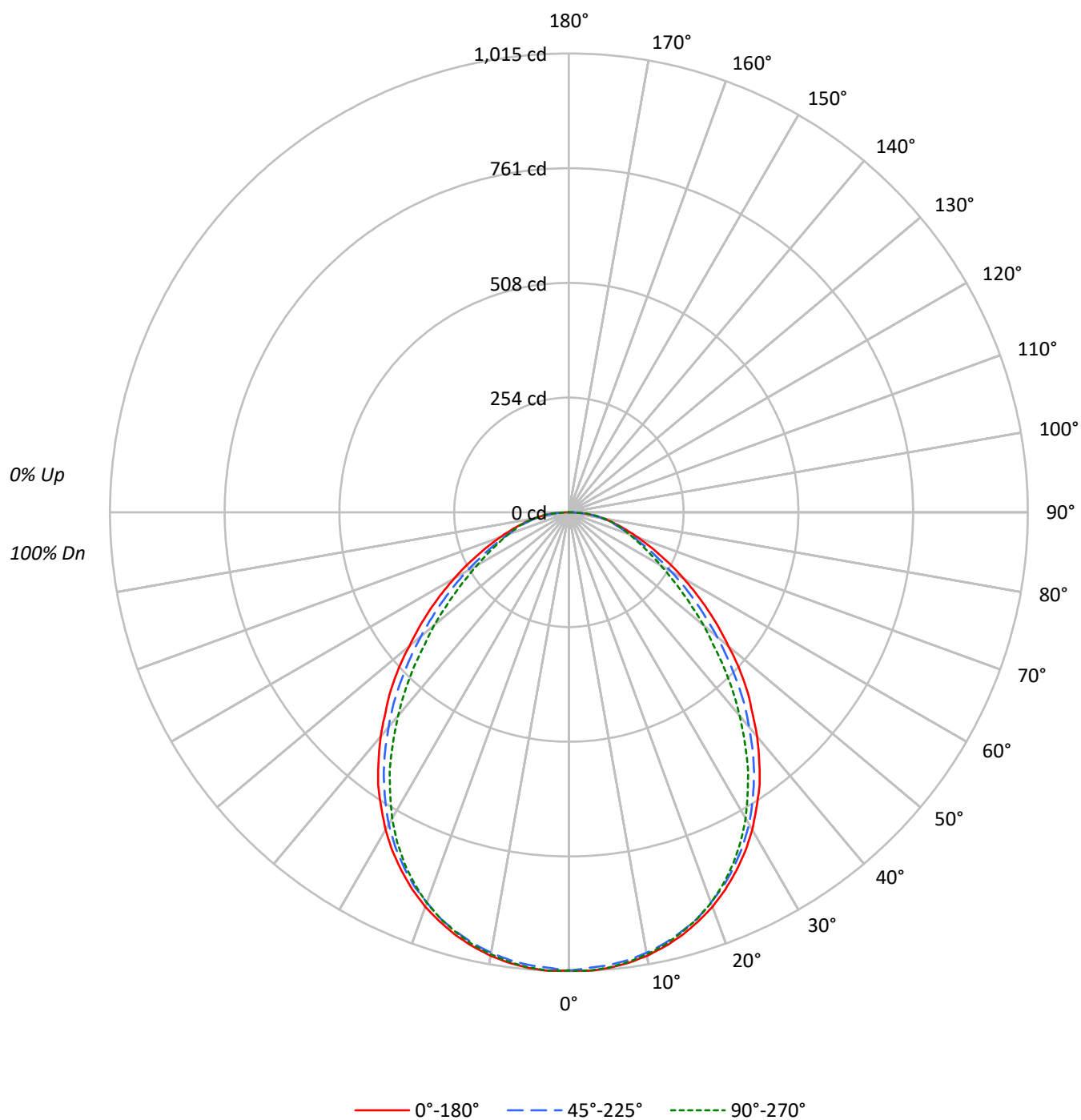
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2727	2727	2727
5°	2733	2716	2730
10°	2721	2704	2713
15°	2697	2676	2681
20°	2659	2630	2632
25°	2599	2567	2549
30°	2519	2476	2429
35°	2416	2345	2268
40°	2275	2178	2063
45°	2122	1993	1845
50°	1929	1788	1630
55°	1756	1586	1421
60°	1575	1397	1262
65°	1404	1244	1160
70°	1277	1135	1122
75°	1194	1105	1160
80°	1199	1142	1209
85°	1254	1170	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	4.2
10°-20°	271.7	11.9
20°-30°	398.3	17.5
30°-40°	444.6	19.5
40°-50°	402.5	17.7
50°-60°	303.9	13.4
60°-70°	198.7	8.7
70°-80°	116.7	5.1
80°-90°	42.7	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°	765.9	33.7
0°-40°	1210.5	53.2
0°-60°	1916.9	84.3
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1012	1010	1006	1011	1011	96
15°	968	966	961	966	962	273
25°	875	872	864	863	859	403
35°	735	729	714	698	690	458
45°	558	549	524	496	485	428
55°	374	366	338	311	303	335
65°	220	214	195	184	182	221
75°	115	112	106	108	112	123
85°	41	39	38	43	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.5	1013.5	1013.5	1013.5	1013.5
2.5°	1015.1	1013.5	1008.7	1015.1	1014.6
5°	1011.9	1009.8	1005.5	1011.4	1010.8
7.5°	1005.5	1003.4	999.1	1004.4	1003.4
10°	995.9	993.7	989.5	995.3	992.7
12.5°	983.6	981.5	976.7	982.0	979.9
15°	968.1	966.5	960.6	966.0	962.2
17.5°	949.4	946.8	942.5	945.7	943.0
20°	928.6	925.4	918.4	921.7	919.0
22.5°	903.5	899.2	894.4	894.4	890.7
25°	875.2	872.0	864.5	862.9	858.6
27.5°	844.8	842.1	832.5	829.8	822.3
30°	810.6	806.8	796.7	788.2	781.7
32.5°	772.7	770.0	756.1	744.9	735.8
35°	735.3	728.9	713.9	697.9	690.4
37.5°	691.5	686.7	668.0	648.3	638.1
40°	647.7	641.8	620.0	598.1	587.4
42.5°	600.2	594.9	574.0	547.9	536.7
45°	557.5	548.9	523.8	495.5	484.9
47.5°	510.5	501.4	474.7	444.8	432.5
50°	460.8	455.0	427.2	398.4	389.3
52.5°	416.5	407.4	381.3	353.0	343.4
55°	374.3	365.8	338.0	311.3	302.8
57.5°	332.1	322.5	298.5	274.5	265.9
60°	292.6	283.0	259.5	239.8	234.4
62.5°	256.8	246.2	225.3	209.9	206.1
65°	220.5	213.6	195.4	184.2	182.1
67.5°	190.1	181.6	167.1	161.8	160.7
70°	162.3	156.5	144.2	142.6	142.6
72.5°	137.2	132.4	123.3	124.4	126.0
75°	114.8	111.6	106.3	108.4	111.6
77.5°	95.6	92.4	89.2	92.4	94.5
80°	77.4	74.2	73.7	76.4	78.0
82.5°	58.2	55.5	56.1	60.3	61.9
85°	40.6	39.0	37.9	42.7	43.3
87.5°	20.8	19.8	19.2	23.0	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)