

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: P290793

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290793
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-LD5-20-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

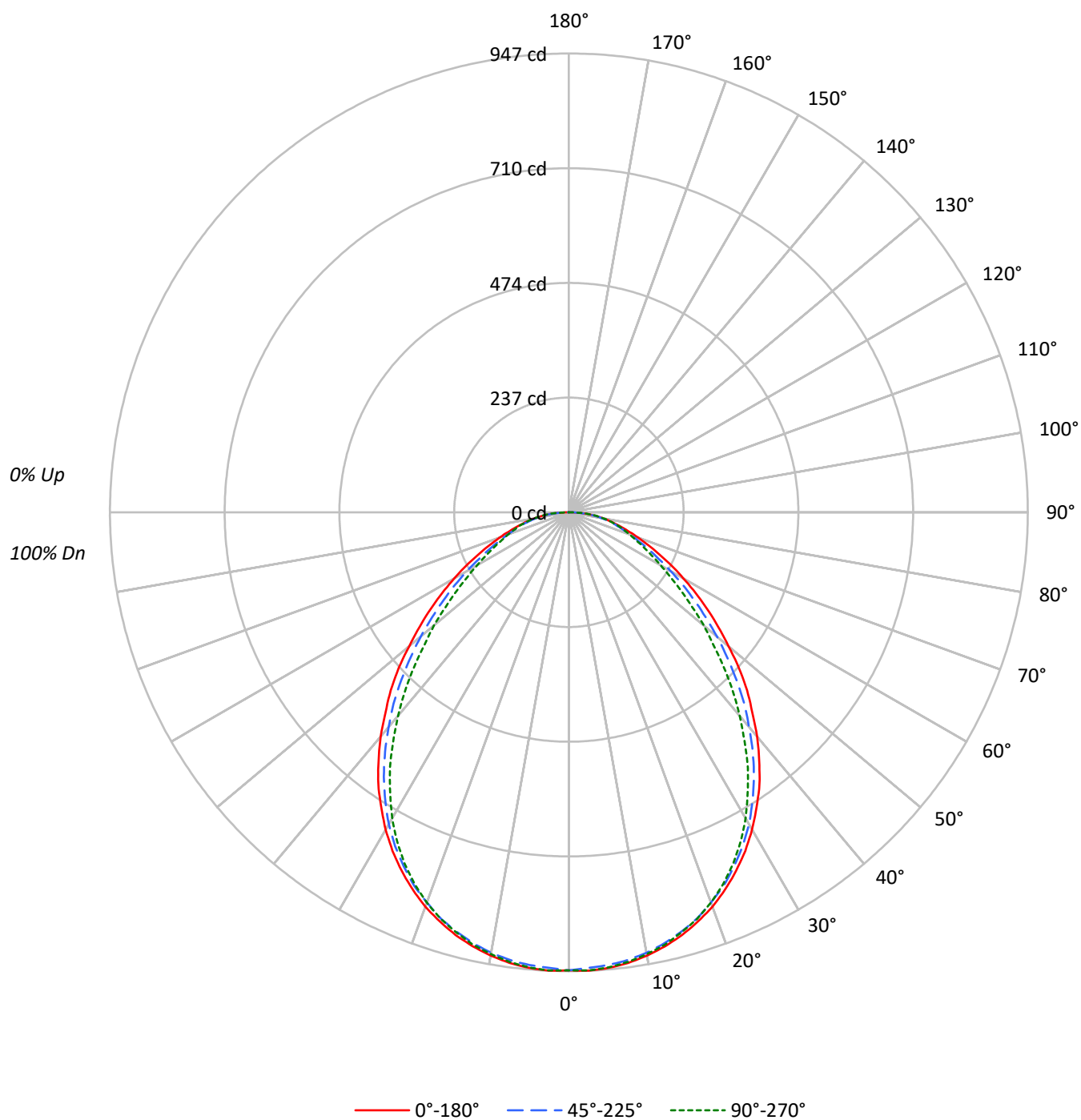
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2544	2544	2544
5°	2549	2534	2547
10°	2538	2522	2530
15°	2516	2496	2500
20°	2480	2453	2455
25°	2424	2394	2378
30°	2349	2309	2266
35°	2253	2188	2116
40°	2122	2031	1925
45°	1979	1859	1721
50°	1799	1668	1520
55°	1638	1479	1325
60°	1469	1303	1177
65°	1310	1161	1081
70°	1191	1058	1046
75°	1114	1030	1082
80°	1119	1065	1127
85°	1170	1093	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.2
10°-20°	253.4	11.9
20°-30°	371.6	17.5
30°-40°	414.7	19.5
40°-50°	375.5	17.7
50°-60°	283.5	13.4
60°-70°	185.3	8.7
70°-80°	108.8	5.1
80°-90°	39.8	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°	714.4	33.7
0°-40°	1129.1	53.2
0°-60°	1788.0	84.3
0°-90°	2122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	944	942	938	943	943	90
15°	903	902	896	901	898	254
25°	816	813	806	805	801	376
35°	686	680	666	651	644	427
45°	520	512	489	462	452	400
55°	349	341	315	290	282	312
65°	206	199	182	172	170	206
75°	107	104	99	101	104	115
85°	38	36	35	40	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.3	945.3	945.3	945.3	945.3
2.5°	946.8	945.3	940.9	946.8	946.3
5°	943.8	941.9	937.9	943.3	942.8
7.5°	937.9	935.9	931.9	936.9	935.9
10°	928.9	926.9	922.9	928.4	925.9
12.5°	917.4	915.5	911.0	916.0	914.0
15°	903.0	901.5	896.0	901.0	897.5
17.5°	885.6	883.1	879.1	882.1	879.6
20°	866.1	863.2	856.7	859.7	857.2
22.5°	842.7	838.8	834.3	834.3	830.8
25°	816.3	813.3	806.4	804.9	800.9
27.5°	787.9	785.5	776.5	774.0	767.0
30°	756.1	752.6	743.1	735.2	729.2
32.5°	720.7	718.2	705.3	694.8	686.3
35°	685.8	679.9	665.9	651.0	644.0
37.5°	645.0	640.5	623.1	604.7	595.2
40°	604.2	598.7	578.3	557.8	547.9
42.5°	559.8	554.9	535.4	511.0	500.6
45°	520.0	512.0	488.6	462.2	452.2
47.5°	476.2	467.7	442.8	414.9	403.4
50°	429.8	424.4	398.5	371.6	363.1
52.5°	388.5	380.0	355.6	329.2	320.3
55°	349.1	341.2	315.3	290.4	282.4
57.5°	309.8	300.8	278.4	256.0	248.0
60°	272.9	264.0	242.1	223.6	218.7
62.5°	239.6	229.6	210.2	195.7	192.3
65°	205.7	199.2	182.3	171.8	169.8
67.5°	177.3	169.3	155.9	150.9	149.9
70°	151.4	145.9	134.5	133.0	133.0
72.5°	128.0	123.5	115.1	116.1	117.5
75°	107.1	104.1	99.1	101.1	104.1
77.5°	89.2	86.2	83.2	86.2	88.2
80°	72.2	69.2	68.7	71.2	72.7
82.5°	54.3	51.8	52.3	56.3	57.8
85°	37.9	36.4	35.4	39.8	40.3
87.5°	19.4	18.4	17.9	21.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)