

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: P290755

Luminaire Tested: **14GR-LD5-20-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290755
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-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

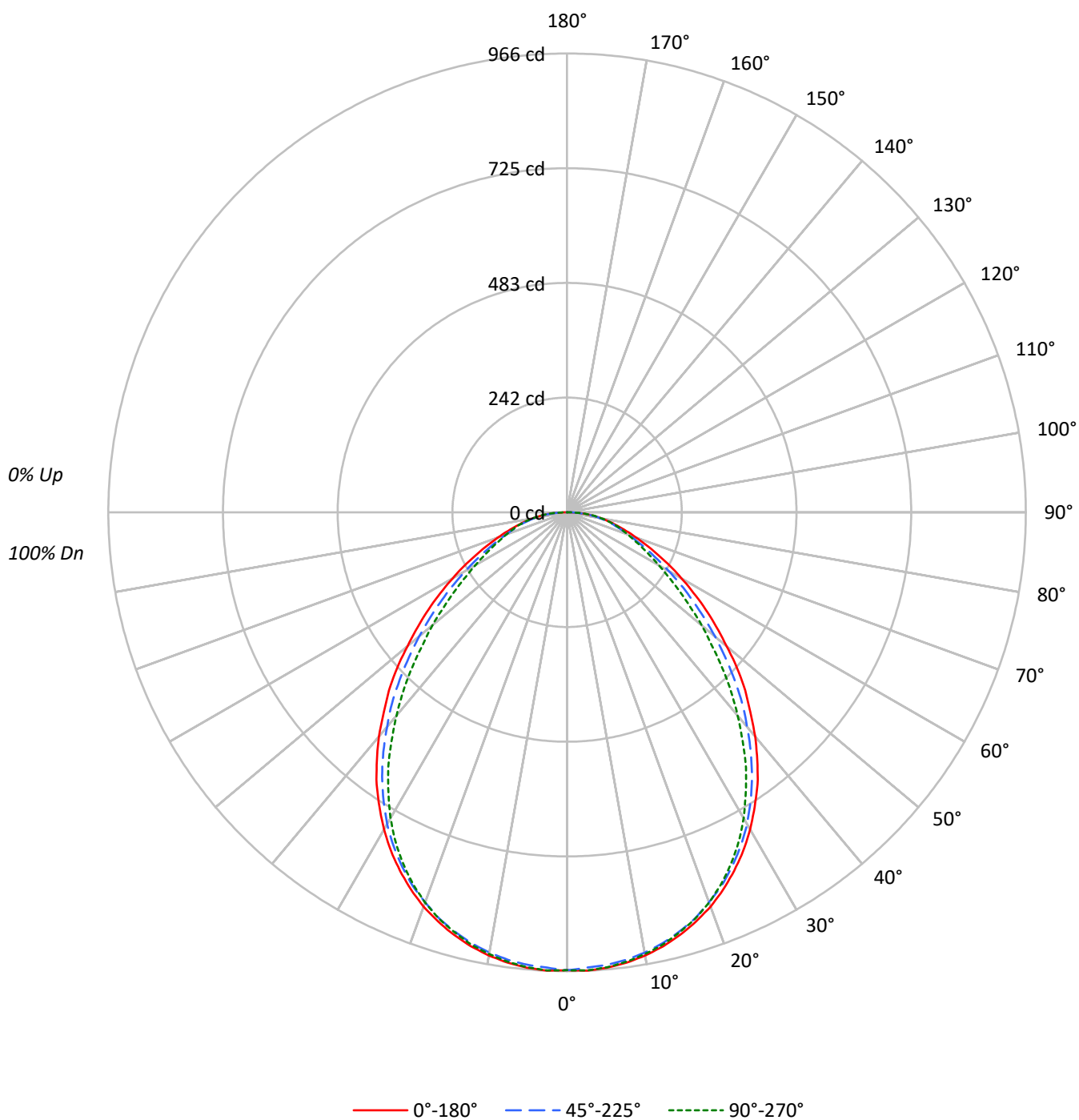
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2594	2594	2594
5°	2600	2583	2597
10°	2588	2572	2580
15°	2566	2546	2550
20°	2529	2502	2503
25°	2472	2442	2425
30°	2396	2355	2311
35°	2298	2231	2158
40°	2164	2072	1963
45°	2018	1896	1755
50°	1835	1701	1550
55°	1671	1508	1351
60°	1498	1329	1200
65°	1336	1184	1103
70°	1215	1079	1067
75°	1135	1051	1104
80°	1141	1086	1150
85°	1192	1115	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	4.2
10°-20°	258.4	11.9
20°-30°	378.9	17.5
30°-40°	422.9	19.5
40°-50°	382.9	17.7
50°-60°	289.1	13.4
60°-70°	189.0	8.7
70°-80°	111.0	5.1
80°-90°	40.6	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°	728.5	33.7
0°-40°	1151.4	53.2
0°-60°	1823.4	84.3
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	962	960	956	962	962	91
15°	921	919	914	919	915	259
25°	832	829	822	821	817	383
35°	699	693	679	664	657	436
45°	530	522	498	471	461	407
55°	356	348	322	296	288	319
65°	210	203	186	175	173	210
75°	109	106	101	103	106	117
85°	39	37	36	41	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.0	964.0	964.0	964.0	964.0
2.5°	965.6	964.0	959.5	965.6	965.1
5°	962.5	960.5	956.4	962.0	961.5
7.5°	956.4	954.4	950.3	955.4	954.4
10°	947.3	945.3	941.2	946.8	944.2
12.5°	935.6	933.6	929.0	934.1	932.0
15°	920.9	919.4	913.8	918.8	915.3
17.5°	903.1	900.6	896.5	899.5	897.0
20°	883.3	880.2	873.6	876.7	874.1
22.5°	859.4	855.4	850.8	850.8	847.2
25°	832.5	829.4	822.3	820.8	816.7
27.5°	803.5	801.0	791.9	789.3	782.2
30°	771.0	767.5	757.8	749.7	743.6
32.5°	735.0	732.4	719.2	708.6	699.9
35°	699.4	693.3	679.1	663.9	656.8
37.5°	657.8	653.2	635.4	616.6	607.0
40°	616.1	610.5	589.7	568.9	558.7
42.5°	570.9	565.8	546.0	521.1	510.5
45°	530.3	522.2	498.3	471.4	461.2
47.5°	485.6	476.9	451.5	423.1	411.4
50°	438.3	432.8	406.3	378.9	370.3
52.5°	396.2	387.5	362.7	335.7	326.6
55°	356.1	347.9	321.5	296.1	288.0
57.5°	315.9	306.8	283.9	261.1	252.9
60°	278.3	269.2	246.9	228.1	223.0
62.5°	244.3	234.2	214.3	199.6	196.1
65°	209.8	203.2	185.9	175.2	173.2
67.5°	180.8	172.7	159.0	153.9	152.9
70°	154.4	148.8	137.1	135.6	135.6
72.5°	130.5	126.0	117.3	118.3	119.9
75°	109.2	106.2	101.1	103.1	106.2
77.5°	90.9	87.9	84.8	87.9	89.9
80°	73.6	70.6	70.1	72.6	74.2
82.5°	55.4	52.8	53.3	57.4	58.9
85°	38.6	37.1	36.1	40.6	41.1
87.5°	19.8	18.8	18.3	21.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)