

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: P290792

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290792
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2094.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

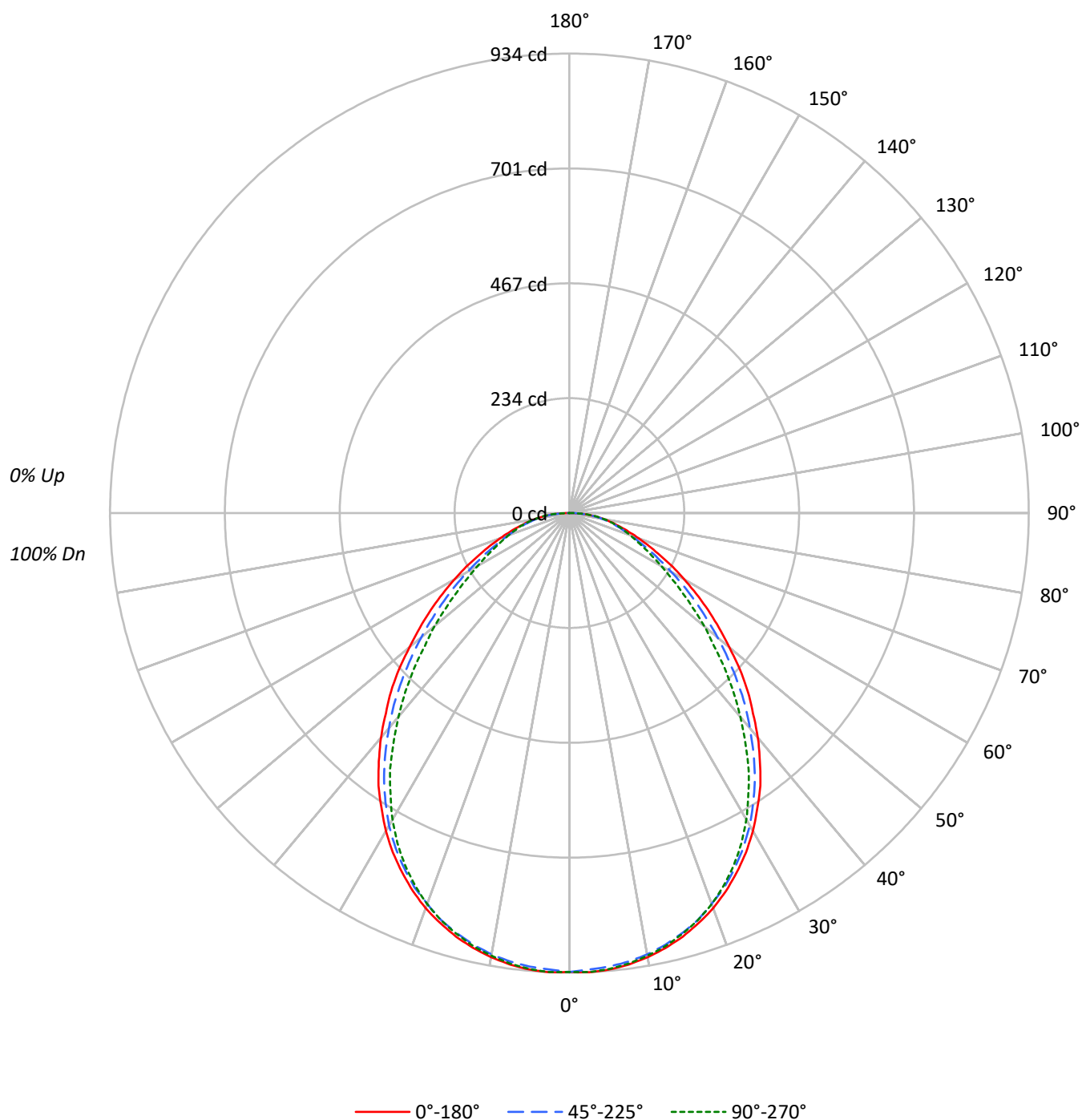
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2510	2510	2510
5°	2516	2500	2513
10°	2505	2488	2497
15°	2483	2463	2467
20°	2448	2421	2422
25°	2392	2363	2347
30°	2318	2279	2236
35°	2223	2159	2088
40°	2094	2004	1899
45°	1953	1835	1698
50°	1776	1646	1500
55°	1616	1460	1308
60°	1449	1286	1161
65°	1293	1145	1067
70°	1175	1044	1032
75°	1099	1017	1068
80°	1105	1051	1113
85°	1155	1078	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	4.2
10°-20°	250.1	11.9
20°-30°	366.7	17.5
30°-40°	409.2	19.5
40°-50°	370.5	17.7
50°-60°	279.7	13.4
60°-70°	182.9	8.7
70°-80°	107.4	5.1
80°-90°	39.3	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°	704.9	33.7
0°-40°	1114.2	53.2
0°-60°	1764.4	84.3
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	931	929	926	931	930	88
15°	891	890	884	889	886	251
25°	806	803	796	794	790	371
35°	677	671	657	642	636	422
45°	513	505	482	456	446	394
55°	344	337	311	286	279	308
65°	203	197	180	170	168	204
75°	106	103	98	100	103	114
85°	37	36	35	39	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.9	932.9	932.9	932.9	932.9
2.5°	934.3	932.9	928.4	934.3	933.8
5°	931.4	929.4	925.5	930.9	930.4
7.5°	925.5	923.5	919.6	924.5	923.5
10°	916.6	914.7	910.7	916.2	913.7
12.5°	905.3	903.4	899.0	903.9	901.9
15°	891.1	889.6	884.2	889.1	885.7
17.5°	873.9	871.4	867.5	870.4	868.0
20°	854.7	851.8	845.4	848.3	845.9
22.5°	831.6	827.7	823.3	823.3	819.8
25°	805.6	802.6	795.7	794.3	790.3
27.5°	777.6	775.1	766.2	763.8	756.9
30°	746.1	742.7	733.3	725.5	719.6
32.5°	711.2	708.7	696.0	685.6	677.3
35°	676.8	670.9	657.1	642.4	635.5
37.5°	636.5	632.1	614.9	596.7	587.3
40°	596.2	590.8	570.6	550.5	540.6
42.5°	552.4	547.5	528.4	504.3	494.0
45°	513.1	505.3	482.2	456.1	446.3
47.5°	469.9	461.5	436.9	409.4	398.1
50°	424.2	418.8	393.2	366.7	358.3
52.5°	383.4	375.0	350.9	324.9	316.0
55°	344.5	336.7	311.1	286.5	278.7
57.5°	305.7	296.9	274.7	252.6	244.8
60°	269.3	260.5	238.9	220.7	215.8
62.5°	236.4	226.6	207.4	193.2	189.7
65°	203.0	196.6	179.9	169.6	167.6
67.5°	175.0	167.1	153.8	148.9	147.9
70°	149.4	144.0	132.7	131.2	131.2
72.5°	126.3	121.9	113.5	114.5	116.0
75°	105.7	102.7	97.8	99.8	102.7
77.5°	88.0	85.0	82.1	85.0	87.0
80°	71.3	68.3	67.8	70.3	71.8
82.5°	53.6	51.1	51.6	55.5	57.0
85°	37.4	35.9	34.9	39.3	39.8
87.5°	19.2	18.2	17.7	21.1	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)