

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: P290795

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290795
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2149.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

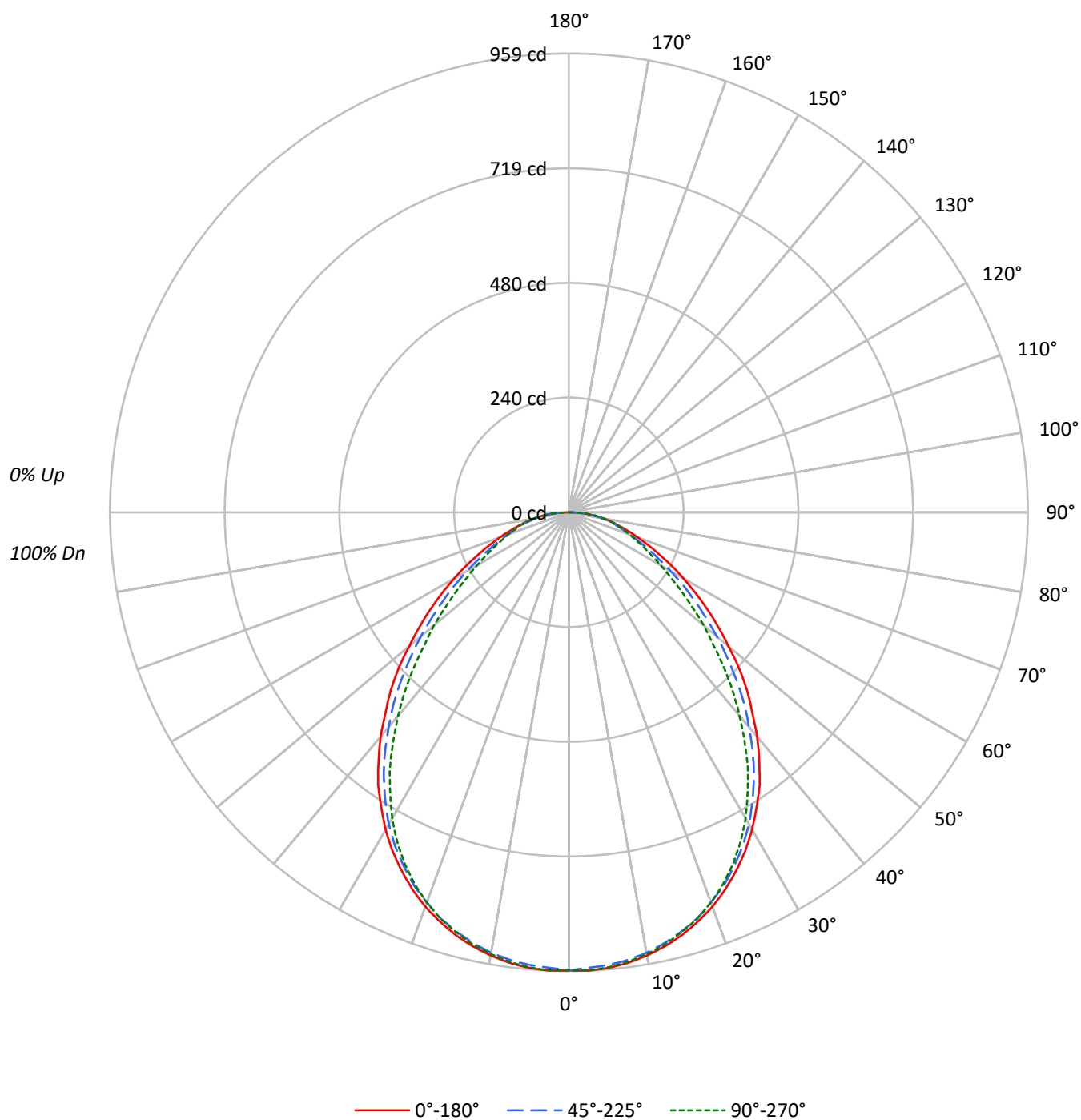
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2576	2576	2576
5°	2582	2566	2579
10°	2570	2554	2562
15°	2548	2528	2532
20°	2512	2485	2486
25°	2455	2425	2408
30°	2379	2339	2295
35°	2282	2215	2143
40°	2149	2057	1949
45°	2004	1883	1743
50°	1822	1689	1539
55°	1659	1498	1342
60°	1488	1319	1192
65°	1326	1175	1095
70°	1206	1072	1060
75°	1127	1044	1096
80°	1133	1079	1141
85°	1183	1105	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.2
10°-20°	256.6	11.9
20°-30°	376.3	17.5
30°-40°	420.0	19.5
40°-50°	380.2	17.7
50°-60°	287.1	13.4
60°-70°	187.7	8.7
70°-80°	110.2	5.1
80°-90°	40.4	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°	723.4	33.7
0°-40°	1143.4	53.2
0°-60°	1810.7	84.3
0°-90°	2149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	956	954	950	955	955	91
15°	914	913	907	912	909	258
25°	827	824	817	815	811	380
35°	695	688	674	659	652	433
45°	527	518	495	468	458	405
55°	354	346	319	294	286	316
65°	208	202	185	174	172	209
75°	108	105	100	102	105	116
85°	38	37	36	40	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.4	957.4	957.4	957.4	957.4
2.5°	958.9	957.4	952.8	958.9	958.4
5°	955.9	953.8	949.8	955.3	954.8
7.5°	949.8	947.8	943.7	948.8	947.8
10°	940.7	938.7	934.7	940.2	937.7
12.5°	929.1	927.1	922.6	927.6	925.6
15°	914.5	913.0	907.4	912.5	908.9
17.5°	896.8	894.3	890.3	893.3	890.8
20°	877.2	874.1	867.6	870.6	868.1
22.5°	853.5	849.4	844.9	844.9	841.4
25°	826.7	823.7	816.6	815.1	811.1
27.5°	798.0	795.5	786.4	783.8	776.8
30°	765.7	762.2	752.6	744.5	738.5
32.5°	729.9	727.4	714.2	703.6	695.1
35°	694.6	688.5	674.4	659.3	652.2
37.5°	653.2	648.7	631.0	612.4	602.8
40°	611.8	606.3	585.6	564.9	554.8
42.5°	567.0	561.9	542.2	517.5	506.9
45°	526.6	518.5	494.8	468.1	458.0
47.5°	482.2	473.6	448.4	420.2	408.6
50°	435.3	429.8	403.5	376.3	367.7
52.5°	393.4	384.9	360.1	333.4	324.3
55°	353.6	345.5	319.3	294.1	286.0
57.5°	313.7	304.7	282.0	259.3	251.2
60°	276.4	267.3	245.1	226.5	221.4
62.5°	242.6	232.5	212.9	198.2	194.7
65°	208.3	201.8	184.6	174.0	172.0
67.5°	179.6	171.5	157.9	152.8	151.8
70°	153.3	147.8	136.2	134.7	134.7
72.5°	129.6	125.1	116.5	117.5	119.0
75°	108.4	105.4	100.4	102.4	105.4
77.5°	90.3	87.3	84.2	87.3	89.3
80°	73.1	70.1	69.6	72.1	73.6
82.5°	55.0	52.5	53.0	57.0	58.5
85°	38.3	36.8	35.8	40.4	40.9
87.5°	19.7	18.7	18.2	21.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)