

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: P290796

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290796
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

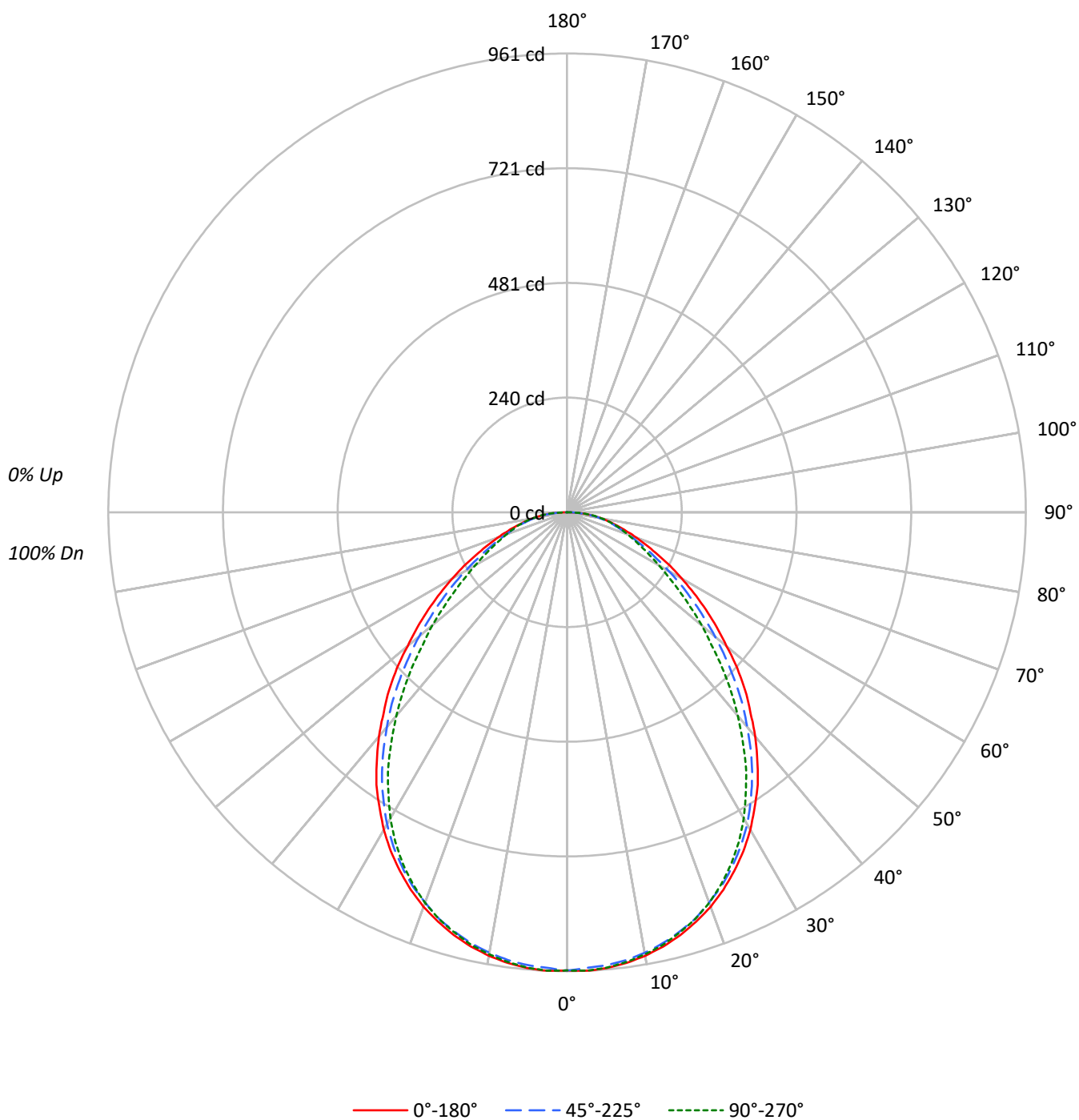
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2582	2582	2582
5°	2588	2572	2585
10°	2576	2560	2568
15°	2554	2534	2538
20°	2518	2490	2492
25°	2460	2430	2414
30°	2385	2344	2300
35°	2287	2221	2147
40°	2154	2062	1953
45°	2009	1888	1747
50°	1827	1693	1543
55°	1663	1501	1345
60°	1491	1322	1195
65°	1330	1178	1098
70°	1209	1074	1062
75°	1130	1046	1099
80°	1136	1082	1144
85°	1186	1108	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	4.2
10°-20°	257.2	11.9
20°-30°	377.2	17.5
30°-40°	421.0	19.5
40°-50°	381.1	17.7
50°-60°	287.8	13.4
60°-70°	188.1	8.7
70°-80°	110.5	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°	725.1	33.7
0°-40°	1146.1	53.2
0°-60°	1815.0	84.3
0°-90°	2154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	958	956	952	958	957	91
15°	917	915	910	915	911	258
25°	829	826	818	817	813	381
35°	696	690	676	661	654	434
45°	528	520	496	469	459	406
55°	354	346	320	295	287	317
65°	209	202	185	174	172	209
75°	109	106	101	103	106	117
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°	959.6	959.6	959.6	959.6	959.6
2.5°	961.1	959.6	955.0	961.1	960.6
5°	958.1	956.1	952.0	957.6	957.1
7.5°	952.0	950.0	945.9	951.0	950.0
10°	942.9	940.9	936.8	942.4	939.9
12.5°	931.3	929.3	924.7	929.8	927.7
15°	916.6	915.1	909.5	914.6	911.1
17.5°	898.9	896.4	892.4	895.4	892.9
20°	879.2	876.2	869.6	872.6	870.1
22.5°	855.4	851.4	846.8	846.8	843.3
25°	828.6	825.6	818.5	817.0	813.0
27.5°	799.8	797.3	788.2	785.7	778.6
30°	767.5	763.9	754.3	746.2	740.2
32.5°	731.6	729.0	715.9	705.3	696.7
35°	696.2	690.1	676.0	660.8	653.7
37.5°	654.7	650.2	632.5	613.8	604.2
40°	613.3	607.7	587.0	566.3	556.1
42.5°	568.3	563.2	543.5	518.7	508.1
45°	527.8	519.7	496.0	469.2	459.1
47.5°	483.3	474.7	449.5	421.1	409.5
50°	436.3	430.8	404.5	377.2	368.6
52.5°	394.4	385.8	361.0	334.2	325.1
55°	354.4	346.3	320.0	294.8	286.7
57.5°	314.5	305.4	282.6	259.9	251.8
60°	277.1	268.0	245.7	227.0	222.0
62.5°	243.2	233.1	213.4	198.7	195.2
65°	208.8	202.2	185.0	174.4	172.4
67.5°	180.0	171.9	158.2	153.2	152.2
70°	153.7	148.1	136.5	135.0	135.0
72.5°	129.9	125.4	116.8	117.8	119.3
75°	108.7	105.7	100.6	102.6	105.7
77.5°	90.5	87.5	84.4	87.5	89.5
80°	73.3	70.3	69.8	72.3	73.8
82.5°	55.1	52.6	53.1	57.1	58.6
85°	38.4	36.9	35.9	40.4	41.0
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)