

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: P291188

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2180.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

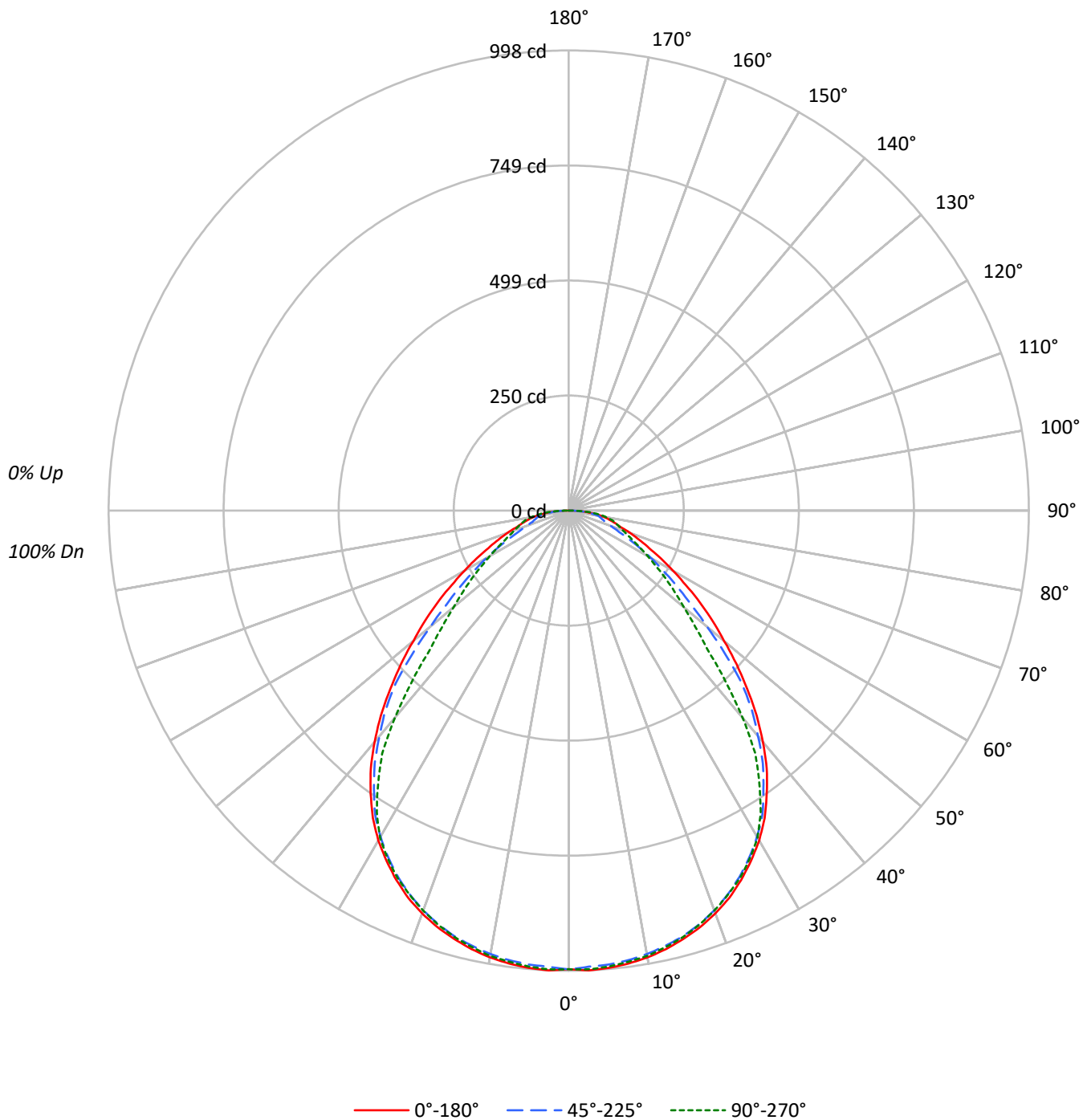
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2677	2677	2677
5°	2690	2669	2682
10°	2689	2669	2679
15°	2680	2663	2667
20°	2662	2642	2645
25°	2626	2602	2610
30°	2566	2538	2544
35°	2461	2419	2368
40°	2301	2244	2059
45°	2082	2023	1615
50°	1842	1636	1361
55°	1630	1346	1201
60°	1407	1114	1064
65°	1224	886	979
70°	1106	760	979
75°	1063	794	1094
80°	1184	1010	1277
85°	1250	1078	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	4.3
10°-20°	270.4	12.4
20°-30°	404.7	18.6
30°-40°	458.1	21.0
40°-50°	390.2	17.9
50°-60°	264.2	12.1
60°-70°	157.7	7.2
70°-80°	98.5	4.5
80°-90°	41.7	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°	769.5	35.3
0°-40°	1227.6	56.3
0°-60°	1882.0	86.3
0°-90°	2180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	996	993	988	994	993	95
15°	962	958	956	962	957	271
25°	884	882	876	880	879	407
35°	749	744	736	729	721	467
45°	547	549	532	453	424	422
55°	347	328	287	256	256	311
65°	192	160	139	149	154	194
75°	102	92	76	100	105	110
85°	40	37	35	44	50	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.8	994.8	994.8	994.8	994.8
2.5°	998.3	995.8	990.3	996.8	995.8
5°	995.8	993.3	988.2	994.3	992.8
7.5°	990.8	988.2	983.7	989.7	987.2
10°	984.2	981.1	976.6	983.2	980.6
12.5°	974.1	971.0	967.0	973.6	970.0
15°	961.9	958.4	955.9	961.9	957.4
17.5°	947.3	944.2	940.7	946.8	941.7
20°	929.6	927.0	922.5	926.0	923.5
22.5°	909.3	905.8	901.2	905.3	901.7
25°	884.5	882.0	876.5	880.5	879.0
27.5°	856.2	854.7	848.1	853.2	850.7
30°	825.9	821.8	816.8	818.3	818.8
32.5°	791.0	785.9	781.9	778.3	774.8
35°	749.0	744.5	736.4	728.8	720.7
37.5°	705.5	699.4	691.4	674.7	664.6
40°	654.9	651.9	638.8	615.5	586.2
42.5°	603.4	600.3	588.7	536.6	504.7
45°	547.2	548.7	531.5	453.1	424.3
47.5°	493.6	497.7	460.2	386.9	371.7
50°	440.0	444.6	390.9	334.3	325.2
52.5°	393.0	389.4	333.3	293.3	289.3
55°	347.4	328.2	286.8	255.9	255.9
57.5°	300.9	273.6	243.8	224.0	224.0
60°	261.5	227.6	206.9	193.7	197.7
62.5°	225.1	189.1	171.4	168.9	174.0
65°	192.2	160.3	139.1	148.7	153.7
67.5°	165.4	137.1	114.3	134.5	137.6
70°	140.6	119.4	96.6	123.9	124.4
72.5°	117.8	105.2	82.9	112.3	114.3
75°	102.2	91.5	76.4	100.1	105.2
77.5°	89.5	78.4	70.3	86.5	96.1
80°	76.4	64.2	65.2	72.8	82.4
82.5°	58.7	49.6	51.6	59.7	67.3
85°	40.5	37.4	34.9	44.0	49.6
87.5°	21.7	20.2	17.7	24.8	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)