

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: P291197

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291197
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-LD5-24-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: 2552.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

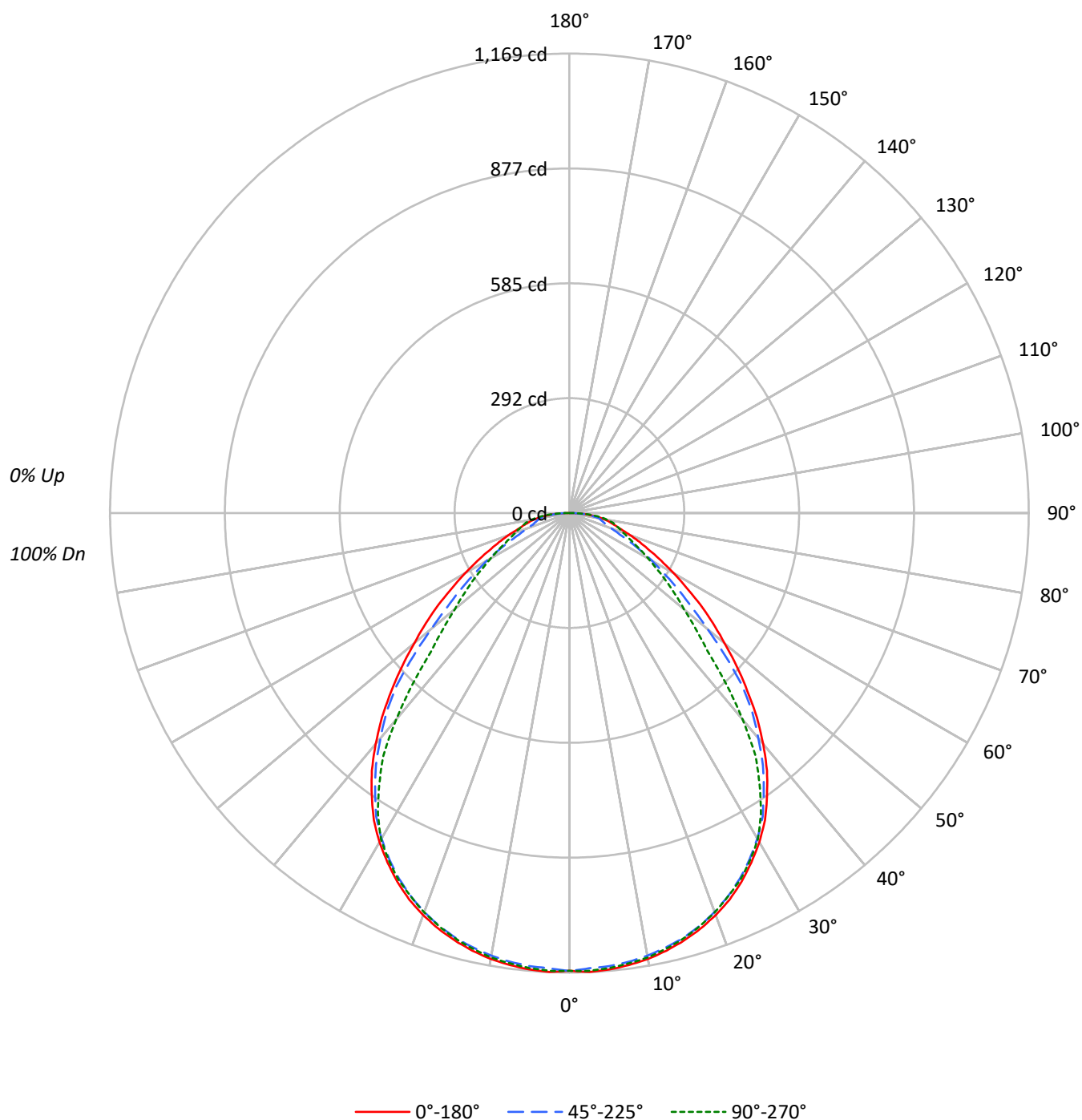
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3134	3134	3134
5°	3149	3125	3139
10°	3148	3124	3137
15°	3137	3117	3122
20°	3116	3092	3096
25°	3075	3046	3055
30°	3004	2971	2978
35°	2880	2832	2772
40°	2693	2627	2410
45°	2438	2368	1890
50°	2156	1916	1594
55°	1908	1575	1406
60°	1647	1303	1246
65°	1433	1037	1146
70°	1295	890	1146
75°	1243	930	1280
80°	1385	1184	1495
85°	1463	1263	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	4.3
10°-20°	316.6	12.4
20°-30°	473.8	18.6
30°-40°	536.3	21.0
40°-50°	456.8	17.9
50°-60°	309.3	12.1
60°-70°	184.7	7.2
70°-80°	115.4	4.5
80°-90°	48.8	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°	900.8	35.3
0°-40°	1437.1	56.3
0°-60°	2203.2	86.3
0°-90°	2552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1166	1163	1157	1164	1162	111
15°	1126	1122	1119	1126	1121	318
25°	1036	1032	1026	1031	1029	476
35°	877	872	862	853	844	547
45°	641	642	622	530	497	494
55°	407	384	336	300	300	364
65°	225	188	163	174	180	227
75°	120	107	89	117	123	129
85°	47	44	41	52	58	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.6	1164.6	1164.6	1164.6	1164.6
2.5°	1168.7	1165.7	1159.2	1166.9	1165.7
5°	1165.7	1162.8	1156.9	1164.0	1162.2
7.5°	1159.8	1156.9	1151.5	1158.6	1155.7
10°	1152.1	1148.6	1143.2	1150.9	1148.0
12.5°	1140.3	1136.7	1132.0	1139.7	1135.5
15°	1126.1	1121.9	1119.0	1126.1	1120.7
17.5°	1108.9	1105.4	1101.2	1108.3	1102.4
20°	1088.2	1085.2	1079.9	1084.0	1081.1
22.5°	1064.5	1060.4	1055.0	1059.8	1055.6
25°	1035.5	1032.5	1026.0	1030.8	1029.0
27.5°	1002.3	1000.6	992.9	998.8	995.8
30°	966.8	962.1	956.2	957.9	958.5
32.5°	926.0	920.0	915.3	911.2	907.0
35°	876.8	871.5	862.0	853.1	843.7
37.5°	825.9	818.8	809.3	789.8	778.0
40°	766.7	763.1	747.8	720.5	686.2
42.5°	706.3	702.8	689.1	628.2	590.9
45°	640.6	642.4	622.2	530.5	496.7
47.5°	577.8	582.6	538.8	452.9	435.2
50°	515.1	520.4	457.7	391.3	380.7
52.5°	460.0	455.9	390.2	343.4	338.7
55°	406.7	384.2	335.7	299.6	299.6
57.5°	352.3	320.3	285.4	262.3	262.3
60°	306.1	266.4	242.1	226.8	231.5
62.5°	263.5	221.4	200.7	197.7	203.7
65°	225.0	187.7	162.8	174.1	180.0
67.5°	193.6	160.4	133.8	157.5	161.0
70°	164.6	139.7	113.1	145.1	145.6
72.5°	137.9	123.1	97.1	131.4	133.8
75°	119.6	107.2	89.4	117.2	123.1
77.5°	104.8	91.8	82.3	101.2	112.5
80°	89.4	75.2	76.4	85.3	96.5
82.5°	68.7	58.0	60.4	69.9	78.7
85°	47.4	43.8	40.9	51.5	58.0
87.5°	25.5	23.7	20.7	29.0	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)