

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: P291254

Luminaire Tested: **14GR-LD5-28-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291254
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-LD5-28-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

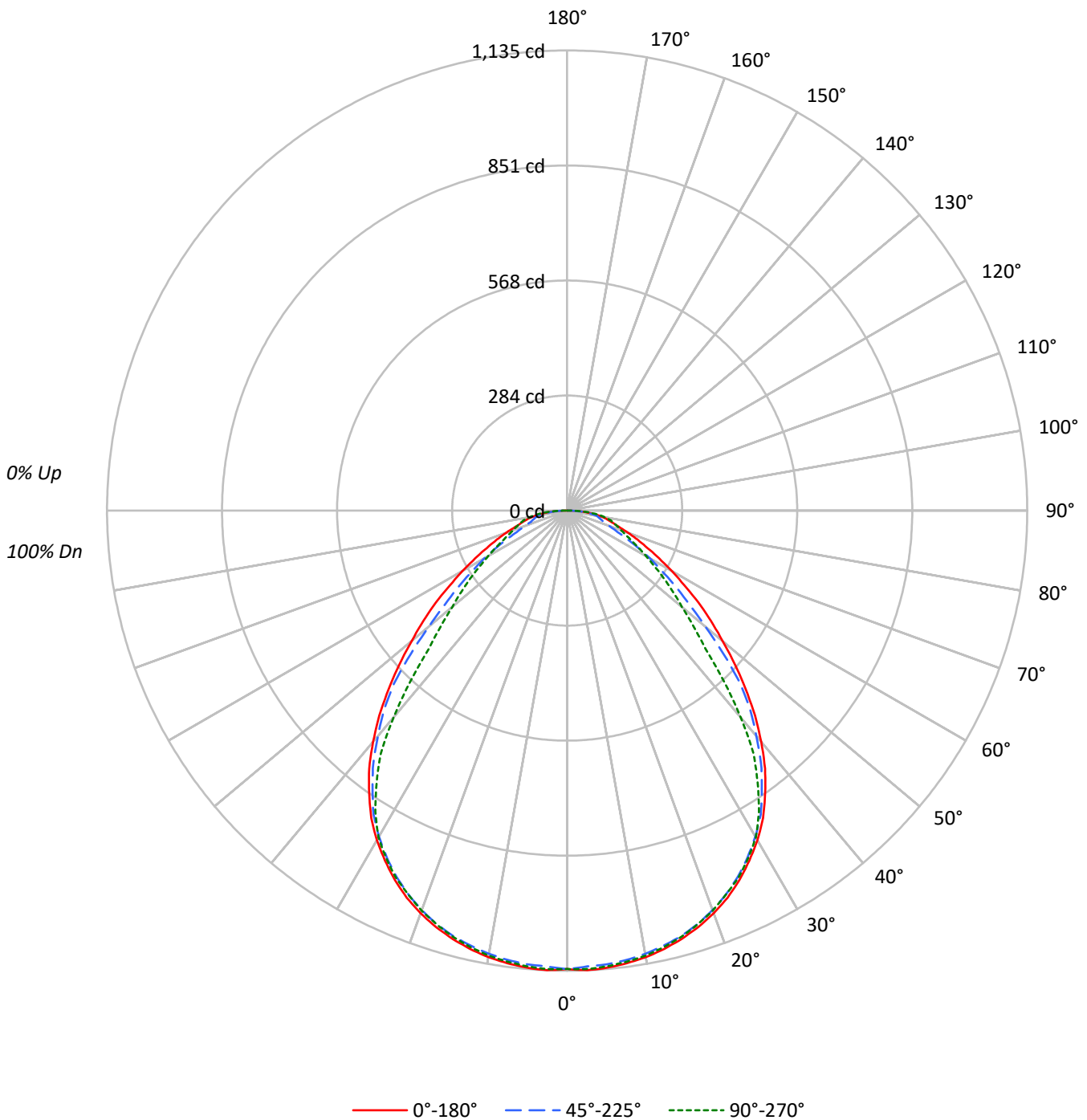
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3043	3043	3043
5°	3058	3034	3048
10°	3057	3033	3046
15°	3046	3027	3032
20°	3026	3003	3006
25°	2985	2958	2966
30°	2917	2885	2892
35°	2797	2750	2691
40°	2615	2551	2341
45°	2367	2299	1835
50°	2094	1860	1547
55°	1853	1529	1365
60°	1600	1265	1210
65°	1391	1007	1113
70°	1257	864	1113
75°	1207	902	1243
80°	1345	1150	1452
85°	1420	1226	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	4.3
10°-20°	307.4	12.4
20°-30°	460.0	18.6
30°-40°	520.8	21.0
40°-50°	443.6	17.9
50°-60°	300.3	12.1
60°-70°	179.3	7.2
70°-80°	112.0	4.5
80°-90°	47.3	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°	874.7	35.3
0°-40°	1395.4	56.3
0°-60°	2139.3	86.3
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1132	1129	1123	1130	1128	108
15°	1093	1089	1086	1093	1088	308
25°	1006	1003	996	1001	999	462
35°	851	846	837	828	819	531
45°	622	624	604	515	482	480
55°	395	373	326	291	291	353
65°	218	182	158	169	175	220
75°	116	104	87	114	120	125
85°	46	42	40	50	56	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1134.8	1131.9	1125.6	1133.1	1131.9
5°	1131.9	1129.1	1123.3	1130.2	1128.5
7.5°	1126.2	1123.3	1118.1	1125.0	1122.2
10°	1118.7	1115.3	1110.1	1117.6	1114.7
12.5°	1107.2	1103.8	1099.2	1106.6	1102.6
15°	1093.4	1089.4	1086.5	1093.4	1088.2
17.5°	1076.8	1073.3	1069.3	1076.2	1070.4
20°	1056.6	1053.8	1048.6	1052.6	1049.7
22.5°	1033.6	1029.6	1024.4	1029.0	1025.0
25°	1005.5	1002.6	996.3	1000.9	999.1
27.5°	973.3	971.5	964.1	969.8	966.9
30°	938.8	934.2	928.4	930.2	930.7
32.5°	899.1	893.4	888.8	884.7	880.7
35°	851.4	846.2	837.0	828.4	819.2
37.5°	802.0	795.1	785.9	766.9	755.4
40°	744.5	741.0	726.1	699.6	666.3
42.5°	685.8	682.4	669.2	609.9	573.7
45°	622.0	623.7	604.2	515.1	482.3
47.5°	561.1	565.7	523.1	439.8	422.5
50°	500.1	505.3	444.4	380.0	369.6
52.5°	446.7	442.7	378.8	333.4	328.8
55°	394.9	373.1	326.0	290.9	290.9
57.5°	342.1	311.0	277.1	254.7	254.7
60°	297.2	258.7	235.1	220.2	224.8
62.5°	255.8	215.0	194.9	192.0	197.8
65°	218.5	182.2	158.1	169.0	174.8
67.5°	188.0	155.8	129.9	152.9	156.4
70°	159.8	135.7	109.8	140.8	141.4
72.5°	133.9	119.6	94.3	127.6	129.9
75°	116.1	104.1	86.8	113.8	119.6
77.5°	101.8	89.1	79.9	98.3	109.2
80°	86.8	73.0	74.2	82.8	93.7
82.5°	66.7	56.3	58.6	67.8	76.5
85°	46.0	42.5	39.7	50.0	56.3
87.5°	24.7	23.0	20.1	28.2	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)