

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: P291255

Luminaire Tested: **14GR-LD5-28-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291255
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

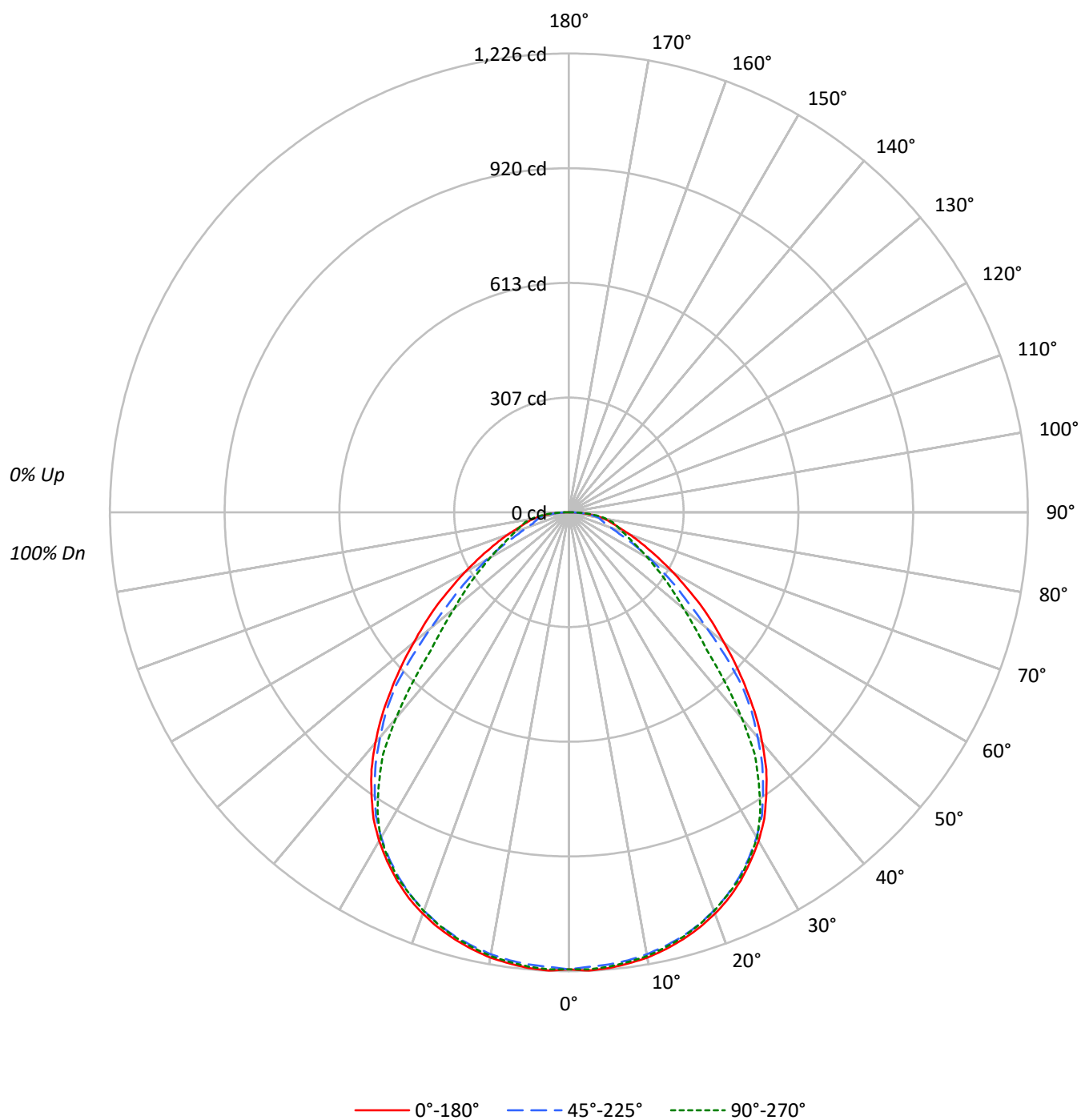
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3286	3286	3286
5°	3302	3277	3292
10°	3301	3276	3289
15°	3290	3269	3274
20°	3268	3243	3246
25°	3224	3195	3204
30°	3150	3115	3123
35°	3020	2969	2906
40°	2824	2754	2527
45°	2556	2483	1982
50°	2261	2009	1671
55°	2001	1651	1474
60°	1728	1366	1306
65°	1502	1087	1202
70°	1358	933	1201
75°	1304	974	1342
80°	1452	1241	1568
85°	1535	1321	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.3
10°-20°	332.0	12.4
20°-30°	496.8	18.6
30°-40°	562.4	21.0
40°-50°	479.0	17.9
50°-60°	324.3	12.1
60°-70°	193.6	7.2
70°-80°	121.0	4.5
80°-90°	51.1	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°	944.6	35.3
0°-40°	1506.9	56.3
0°-60°	2310.3	86.3
0°-90°	2676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1222	1219	1213	1220	1219	116
15°	1181	1176	1173	1181	1175	333
25°	1086	1083	1076	1081	1079	499
35°	919	914	904	895	885	573
45°	672	674	652	556	521	518
55°	426	403	352	314	314	381
65°	236	197	171	182	189	238
75°	125	112	94	123	129	135
85°	50	46	43	54	61	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.1	1221.1	1221.1	1221.1	1221.1
2.5°	1225.5	1222.4	1215.6	1223.6	1222.4
5°	1222.4	1219.3	1213.1	1220.5	1218.7
7.5°	1216.2	1213.1	1207.5	1214.9	1211.8
10°	1208.1	1204.4	1198.8	1206.9	1203.8
12.5°	1195.7	1192.0	1187.0	1195.1	1190.7
15°	1180.8	1176.4	1173.3	1180.8	1175.2
17.5°	1162.8	1159.1	1154.7	1162.2	1156.0
20°	1141.1	1138.0	1132.4	1136.7	1133.6
22.5°	1116.2	1111.9	1106.3	1111.3	1106.9
25°	1085.8	1082.7	1075.9	1080.8	1079.0
27.5°	1051.0	1049.2	1041.1	1047.3	1044.2
30°	1013.8	1008.8	1002.6	1004.5	1005.1
32.5°	971.0	964.7	959.8	955.4	951.1
35°	919.4	913.8	903.9	894.6	884.7
37.5°	866.0	858.6	848.7	828.2	815.8
40°	804.0	800.2	784.1	755.5	719.5
42.5°	740.6	736.9	722.6	658.7	619.6
45°	671.7	673.6	652.5	556.3	520.9
47.5°	605.9	610.9	564.9	474.9	456.3
50°	540.1	545.7	479.9	410.4	399.2
52.5°	482.4	478.0	409.1	360.1	355.1
55°	426.5	402.9	352.0	314.1	314.1
57.5°	369.4	335.9	299.2	275.0	275.0
60°	321.0	279.4	253.9	237.8	242.7
62.5°	276.3	232.2	210.5	207.4	213.6
65°	235.9	196.8	170.7	182.5	188.7
67.5°	203.0	168.2	140.3	165.1	168.9
70°	172.6	146.5	118.6	152.1	152.7
72.5°	144.6	129.1	101.8	137.8	140.3
75°	125.4	112.4	93.7	122.9	129.1
77.5°	109.9	96.2	86.3	106.2	118.0
80°	93.7	78.8	80.1	89.4	101.2
82.5°	72.0	60.8	63.3	73.3	82.6
85°	49.7	45.9	42.8	54.0	60.8
87.5°	26.7	24.8	21.7	30.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)