

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: P291198

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291198
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

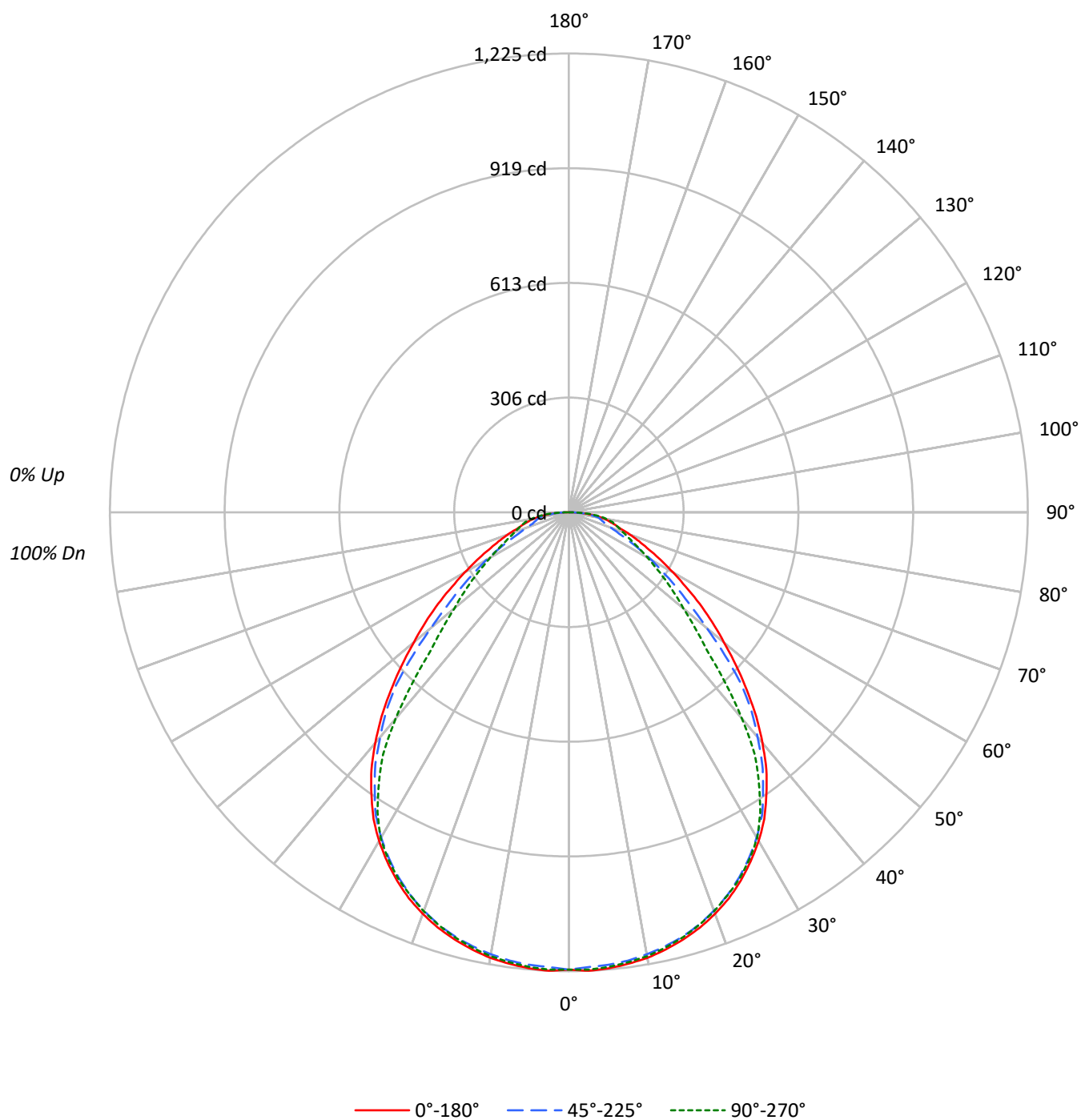
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3285	3285	3285
5°	3301	3276	3291
10°	3300	3274	3288
15°	3288	3268	3273
20°	3266	3241	3245
25°	3223	3193	3203
30°	3149	3114	3122
35°	3019	2968	2905
40°	2823	2753	2527
45°	2555	2482	1982
50°	2260	2008	1670
55°	2000	1651	1473
60°	1727	1366	1306
65°	1501	1087	1202
70°	1357	932	1201
75°	1304	974	1342
80°	1452	1241	1568
85°	1531	1321	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.3
10°-20°	331.8	12.4
20°-30°	496.6	18.6
30°-40°	562.1	21.0
40°-50°	478.8	17.9
50°-60°	324.2	12.1
60°-70°	193.6	7.2
70°-80°	120.9	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°	944.2	35.3
0°-40°	1506.4	56.3
0°-60°	2309.4	86.3
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1222	1219	1213	1220	1218	116
15°	1180	1176	1173	1180	1175	333
25°	1085	1082	1076	1080	1079	499
35°	919	914	904	894	884	573
45°	672	673	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°	1220.7	1220.7	1220.7	1220.7	1220.7
2.5°	1225.0	1221.9	1215.1	1223.2	1221.9
5°	1221.9	1218.8	1212.6	1220.1	1218.2
7.5°	1215.7	1212.6	1207.0	1214.5	1211.4
10°	1207.7	1203.9	1198.3	1206.4	1203.3
12.5°	1195.2	1191.5	1186.6	1194.6	1190.3
15°	1180.3	1176.0	1172.9	1180.3	1174.8
17.5°	1162.4	1158.6	1154.3	1161.7	1155.5
20°	1140.6	1137.5	1131.9	1136.3	1133.2
22.5°	1115.8	1111.5	1105.9	1110.8	1106.5
25°	1085.4	1082.3	1075.5	1080.4	1078.6
27.5°	1050.6	1048.8	1040.7	1046.9	1043.8
30°	1013.4	1008.4	1002.2	1004.1	1004.7
32.5°	970.6	964.4	959.4	955.1	950.7
35°	919.1	913.5	903.6	894.3	884.3
37.5°	865.7	858.3	848.3	827.9	815.4
40°	803.7	799.9	783.8	755.2	719.3
42.5°	740.4	736.6	722.4	658.4	619.3
45°	671.5	673.3	652.2	556.0	520.7
47.5°	605.7	610.7	564.7	474.7	456.1
50°	539.9	545.5	479.7	410.2	399.0
52.5°	482.2	477.8	409.0	359.9	355.0
55°	426.3	402.8	351.9	314.0	314.0
57.5°	369.2	335.7	299.1	274.9	274.9
60°	320.8	279.3	253.8	237.7	242.6
62.5°	276.2	232.1	210.4	207.3	213.5
65°	235.8	196.7	170.7	182.5	188.7
67.5°	202.9	168.2	140.3	165.1	168.8
70°	172.5	146.5	118.5	152.0	152.7
72.5°	144.6	129.1	101.8	137.8	140.3
75°	125.4	112.3	93.7	122.9	129.1
77.5°	109.8	96.2	86.3	106.1	117.9
80°	93.7	78.8	80.1	89.4	101.2
82.5°	72.0	60.8	63.3	73.2	82.5
85°	49.6	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)