

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: P291306

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291306
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-LD5-32-A125-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

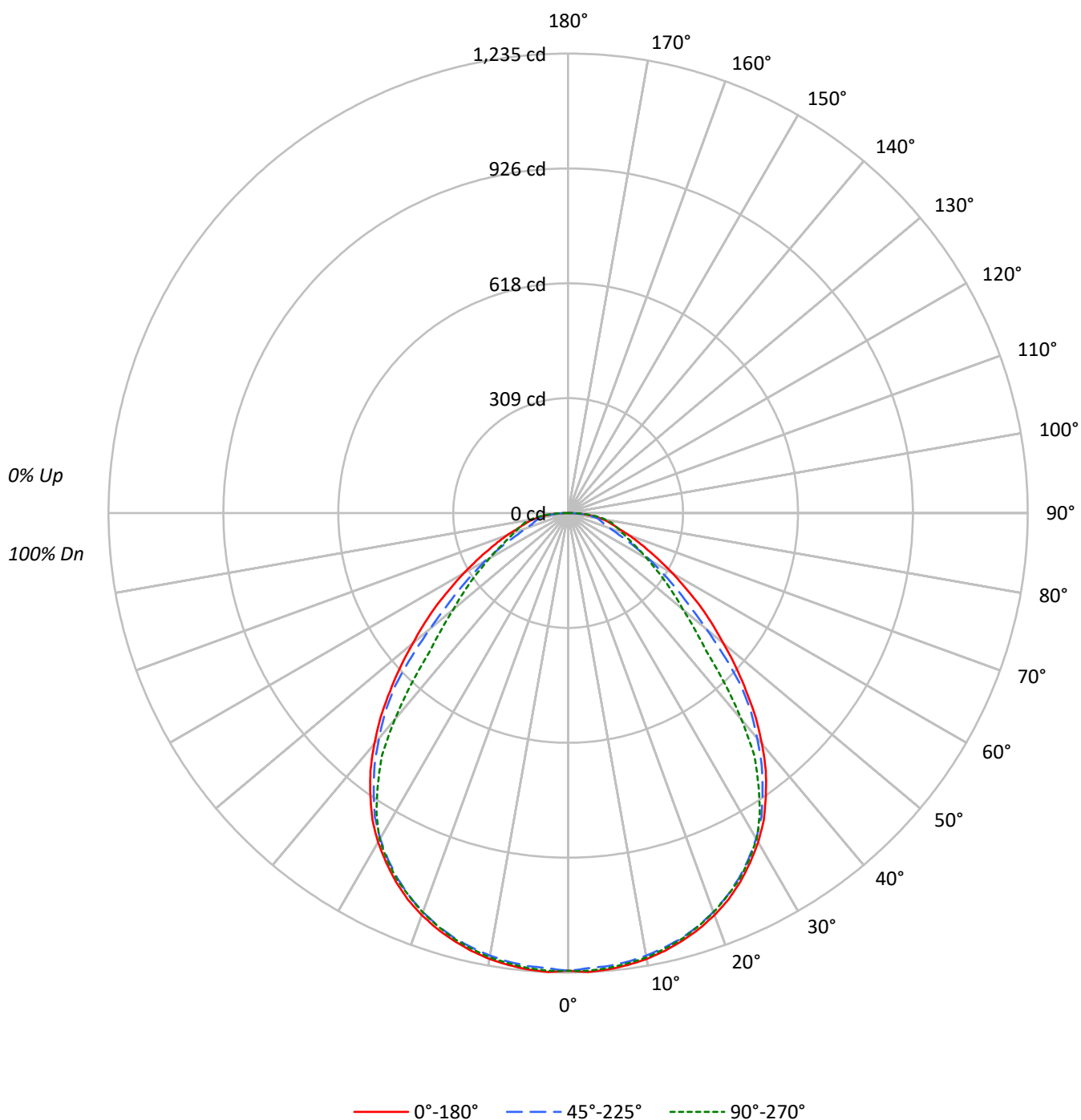
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3311	3311	3311
5°	3327	3301	3317
10°	3326	3300	3314
15°	3314	3293	3299
20°	3292	3267	3271
25°	3248	3218	3227
30°	3174	3139	3146
35°	3043	2992	2928
40°	2845	2775	2546
45°	2575	2502	1997
50°	2278	2024	1684
55°	2016	1664	1485
60°	1741	1377	1316
65°	1514	1095	1210
70°	1368	940	1211
75°	1313	981	1353
80°	1463	1251	1579
85°	1544	1334	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.3
10°-20°	334.4	12.4
20°-30°	500.5	18.6
30°-40°	566.6	21.0
40°-50°	482.6	17.9
50°-60°	326.8	12.1
60°-70°	195.1	7.2
70°-80°	121.9	4.5
80°-90°	51.5	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°	951.6	35.3
0°-40°	1518.2	56.3
0°-60°	2327.5	86.3
0°-90°	2696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1232	1228	1222	1230	1228	117
15°	1190	1185	1182	1190	1184	336
25°	1094	1091	1084	1089	1087	503
35°	926	921	911	901	891	577
45°	677	679	657	560	525	522
55°	430	406	355	316	316	384
65°	238	198	172	184	190	240
75°	126	113	94	124	130	136
85°	50	46	43	54	61	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.3	1230.3	1230.3	1230.3	1230.3
2.5°	1234.6	1231.5	1224.6	1232.8	1231.5
5°	1231.5	1228.4	1222.1	1229.6	1227.8
7.5°	1225.3	1222.1	1216.5	1224.0	1220.9
10°	1217.1	1213.4	1207.8	1215.9	1212.8
12.5°	1204.6	1200.9	1195.9	1204.0	1199.6
15°	1189.6	1185.2	1182.1	1189.6	1184.0
17.5°	1171.5	1167.7	1163.3	1170.9	1164.6
20°	1149.6	1146.5	1140.8	1145.2	1142.1
22.5°	1124.6	1120.2	1114.6	1119.6	1115.2
25°	1093.9	1090.8	1083.9	1088.9	1087.0
27.5°	1058.9	1057.0	1048.9	1055.1	1052.0
30°	1021.4	1016.4	1010.1	1012.0	1012.6
32.5°	978.2	972.0	967.0	962.6	958.2
35°	926.3	920.7	910.7	901.3	891.3
37.5°	872.5	865.0	855.0	834.4	821.8
40°	810.0	806.2	789.9	761.2	724.9
42.5°	746.2	742.4	728.0	663.6	624.2
45°	676.7	678.6	657.4	560.4	524.8
47.5°	610.4	615.4	569.2	478.5	459.7
50°	544.1	549.8	483.5	413.4	402.2
52.5°	486.0	481.6	412.2	362.8	357.8
55°	429.7	405.9	354.6	316.5	316.5
57.5°	372.1	338.4	301.5	277.1	277.1
60°	323.4	281.5	255.8	239.5	244.6
62.5°	278.3	233.9	212.0	208.9	215.2
65°	237.7	198.3	172.0	183.9	190.1
67.5°	204.5	169.5	141.4	166.4	170.1
70°	173.9	147.6	119.5	153.2	153.9
72.5°	145.7	130.1	102.6	138.9	141.4
75°	126.3	113.2	94.4	123.8	130.1
77.5°	110.7	96.9	86.9	107.0	118.8
80°	94.4	79.4	80.7	90.1	101.9
82.5°	72.6	61.3	63.8	73.8	83.2
85°	50.0	46.3	43.2	54.4	61.3
87.5°	26.9	25.0	21.9	30.6	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)