

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: P291312

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291312
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3119.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

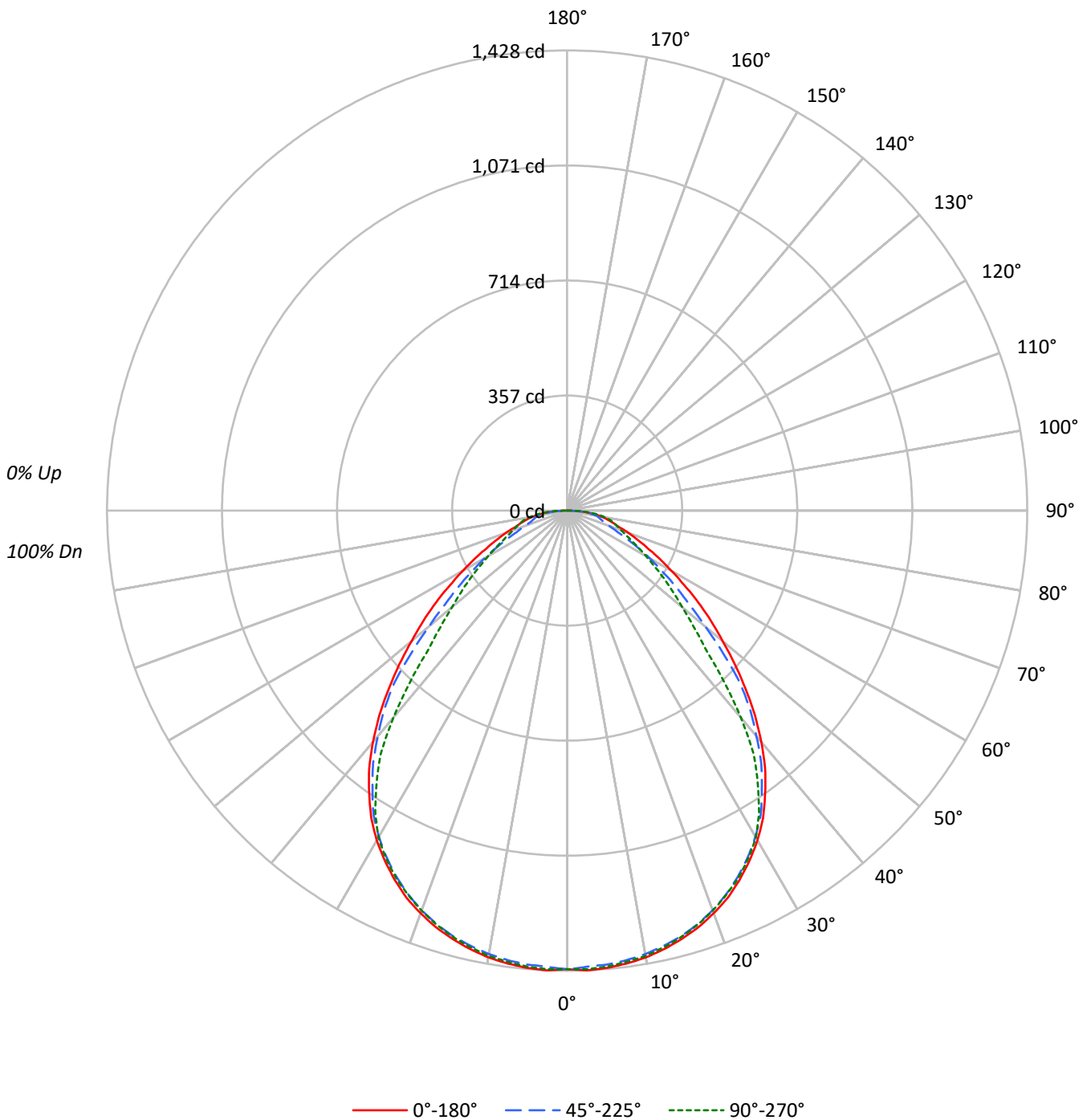
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3830	3830	3830
5°	3848	3819	3837
10°	3848	3818	3834
15°	3834	3810	3816
20°	3809	3779	3784
25°	3758	3723	3734
30°	3672	3631	3640
35°	3520	3461	3387
40°	3292	3210	2946
45°	2979	2894	2310
50°	2635	2341	1948
55°	2332	1925	1718
60°	2013	1593	1523
65°	1751	1267	1401
70°	1583	1087	1400
75°	1520	1136	1565
80°	1694	1446	1827
85°	1788	1541	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	4.3
10°-20°	386.9	12.4
20°-30°	579.0	18.6
30°-40°	655.4	21.0
40°-50°	558.3	17.9
50°-60°	378.0	12.1
60°-70°	225.7	7.2
70°-80°	141.0	4.5
80°-90°	59.6	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°	1100.9	35.3
0°-40°	1756.4	56.3
0°-60°	2692.7	86.3
0°-90°	3119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1425	1421	1414	1423	1420	135
15°	1376	1371	1368	1376	1370	388
25°	1266	1262	1254	1260	1258	582
35°	1072	1065	1054	1043	1031	668
45°	783	785	760	648	607	604
55°	497	470	410	366	366	444
65°	275	229	199	213	220	277
75°	146	131	109	143	150	158
85°	58	54	50	63	71	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1428.4	1424.7	1416.8	1426.2	1424.7
5°	1424.7	1421.1	1413.9	1422.6	1420.4
7.5°	1417.5	1413.9	1407.4	1416.1	1412.4
10°	1408.1	1403.8	1397.2	1406.7	1403.0
12.5°	1393.6	1389.3	1383.5	1392.9	1387.8
15°	1376.3	1371.2	1367.6	1376.3	1369.8
17.5°	1355.3	1350.9	1345.9	1354.6	1347.3
20°	1330.0	1326.3	1319.8	1324.9	1321.3
22.5°	1301.0	1295.9	1289.4	1295.2	1290.2
25°	1265.6	1261.9	1254.0	1259.8	1257.6
27.5°	1225.0	1222.9	1213.5	1220.7	1217.1
30°	1181.6	1175.8	1168.6	1170.8	1171.5
32.5°	1131.7	1124.5	1118.7	1113.6	1108.5
35°	1071.6	1065.1	1053.5	1042.7	1031.1
37.5°	1009.4	1000.7	989.1	965.3	950.8
40°	937.0	932.7	913.9	880.6	838.6
42.5°	863.2	858.9	842.3	767.7	722.1
45°	782.9	785.1	760.5	648.3	607.1
47.5°	706.2	712.0	658.5	553.5	531.8
50°	629.5	636.0	559.3	478.3	465.3
52.5°	562.2	557.2	476.8	419.7	413.9
55°	497.1	469.6	410.3	366.1	366.1
57.5°	430.5	391.5	348.8	320.5	320.5
60°	374.1	325.6	295.9	277.1	282.9
62.5°	322.0	270.6	245.3	241.7	248.9
65°	275.0	229.4	199.0	212.7	220.0
67.5°	236.6	196.1	163.5	192.5	196.8
70°	201.2	170.8	138.2	177.3	178.0
72.5°	168.6	150.5	118.7	160.6	163.5
75°	146.2	131.0	109.3	143.3	150.5
77.5°	128.1	112.2	100.6	123.7	137.5
80°	109.3	91.9	93.3	104.2	117.9
82.5°	83.9	70.9	73.8	85.4	96.2
85°	57.9	53.5	49.9	63.0	70.9
87.5°	31.1	28.9	25.3	35.5	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)