

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: P291310

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291310
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3058.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

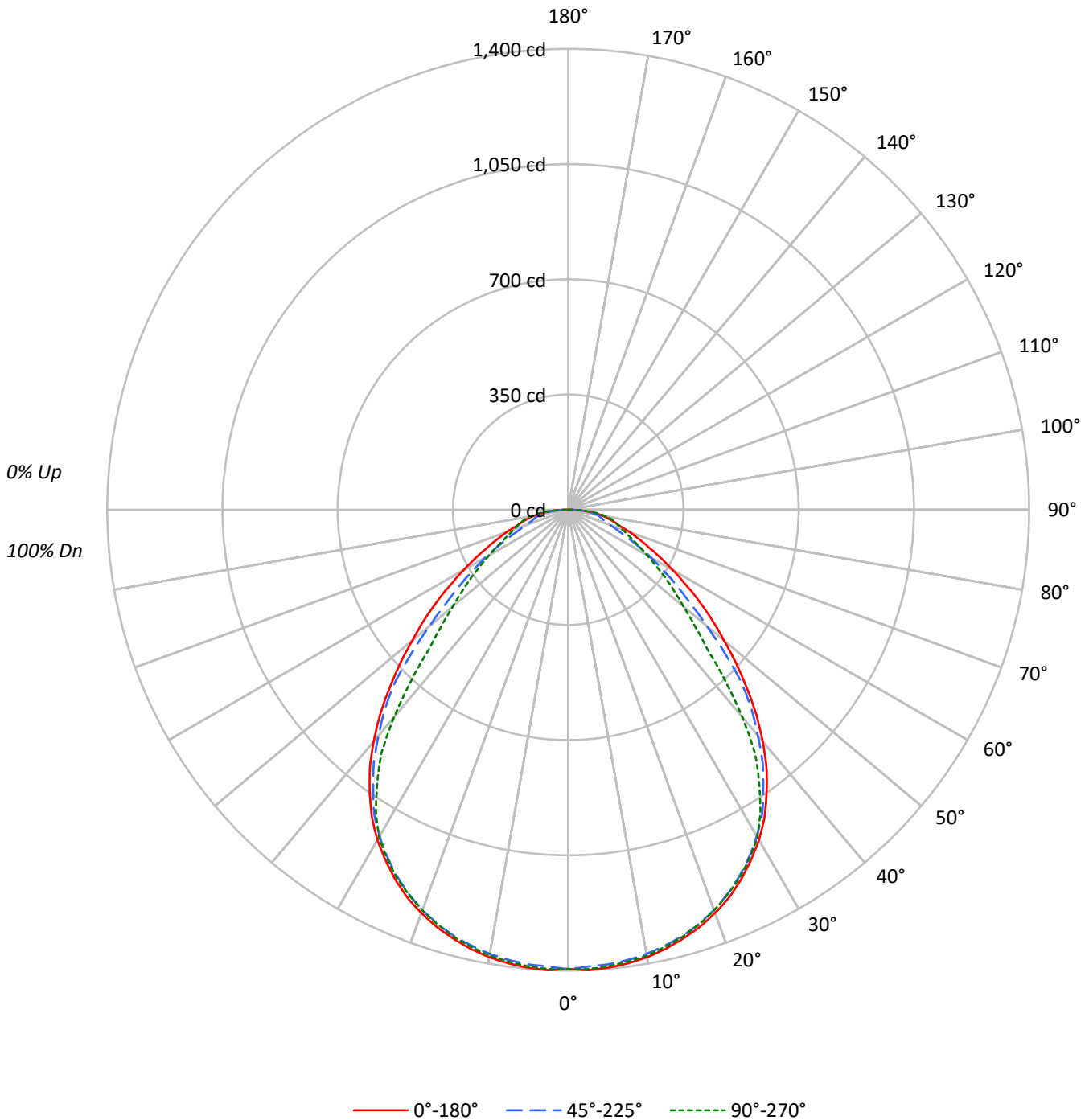
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3755	3755	3755
5°	3773	3744	3762
10°	3772	3743	3759
15°	3759	3735	3741
20°	3734	3706	3710
25°	3684	3651	3661
30°	3600	3560	3569
35°	3452	3393	3321
40°	3227	3147	2888
45°	2921	2837	2265
50°	2584	2296	1910
55°	2287	1887	1684
60°	1974	1562	1493
65°	1717	1242	1373
70°	1552	1066	1373
75°	1490	1114	1535
80°	1660	1418	1791
85°	1754	1513	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.3
10°-20°	379.3	12.4
20°-30°	567.7	18.6
30°-40°	642.6	21.0
40°-50°	547.4	17.9
50°-60°	370.6	12.1
60°-70°	221.3	7.2
70°-80°	138.2	4.5
80°-90°	58.4	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°	1079.4	35.3
0°-40°	1722.0	56.3
0°-60°	2640.1	86.3
0°-90°	3058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1397	1393	1386	1395	1393	133
15°	1349	1344	1341	1349	1343	381
25°	1241	1237	1230	1235	1233	571
35°	1051	1044	1033	1022	1011	655
45°	768	770	746	636	595	592
55°	487	460	402	359	359	436
65°	270	225	195	209	216	272
75°	143	128	107	140	148	155
85°	57	52	49	62	70	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.5	1395.5	1395.5	1395.5	1395.5
2.5°	1400.4	1396.9	1389.1	1398.3	1396.9
5°	1396.9	1393.3	1386.2	1394.8	1392.6
7.5°	1389.8	1386.2	1379.9	1388.4	1384.8
10°	1380.6	1376.3	1369.9	1379.1	1375.6
12.5°	1366.4	1362.1	1356.4	1365.7	1360.7
15°	1349.3	1344.4	1340.8	1349.3	1343.0
17.5°	1328.8	1324.5	1319.6	1328.1	1321.0
20°	1303.9	1300.4	1294.0	1299.0	1295.4
22.5°	1275.6	1270.6	1264.2	1269.9	1264.9
25°	1240.8	1237.3	1229.5	1235.1	1233.0
27.5°	1201.1	1198.9	1189.7	1196.8	1193.3
30°	1158.5	1152.8	1145.7	1147.9	1148.6
32.5°	1109.6	1102.5	1096.8	1091.8	1086.9
35°	1050.7	1044.3	1032.9	1022.3	1010.9
37.5°	989.7	981.2	969.8	946.4	932.2
40°	918.7	914.5	896.0	863.4	822.2
42.5°	846.4	842.1	825.8	752.7	708.0
45°	767.6	769.7	745.6	635.7	595.2
47.5°	692.4	698.1	645.6	542.7	521.4
50°	617.2	623.6	548.4	468.9	456.2
52.5°	551.2	546.3	467.5	411.5	405.8
55°	487.4	460.4	402.3	359.0	359.0
57.5°	422.1	383.8	341.9	314.3	314.3
60°	366.8	319.2	290.2	271.7	277.4
62.5°	315.7	265.3	240.5	237.0	244.0
65°	269.6	224.9	195.1	208.6	215.7
67.5°	232.0	192.3	160.3	188.7	193.0
70°	197.2	167.4	135.5	173.8	174.5
72.5°	165.3	147.6	116.3	157.5	160.3
75°	143.3	128.4	107.1	140.5	147.6
77.5°	125.6	110.0	98.6	121.3	134.8
80°	107.1	90.1	91.5	102.2	115.6
82.5°	82.3	69.5	72.4	83.7	94.4
85°	56.8	52.5	49.0	61.7	69.5
87.5°	30.5	28.4	24.8	34.8	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)