

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: P291209

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291209
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-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

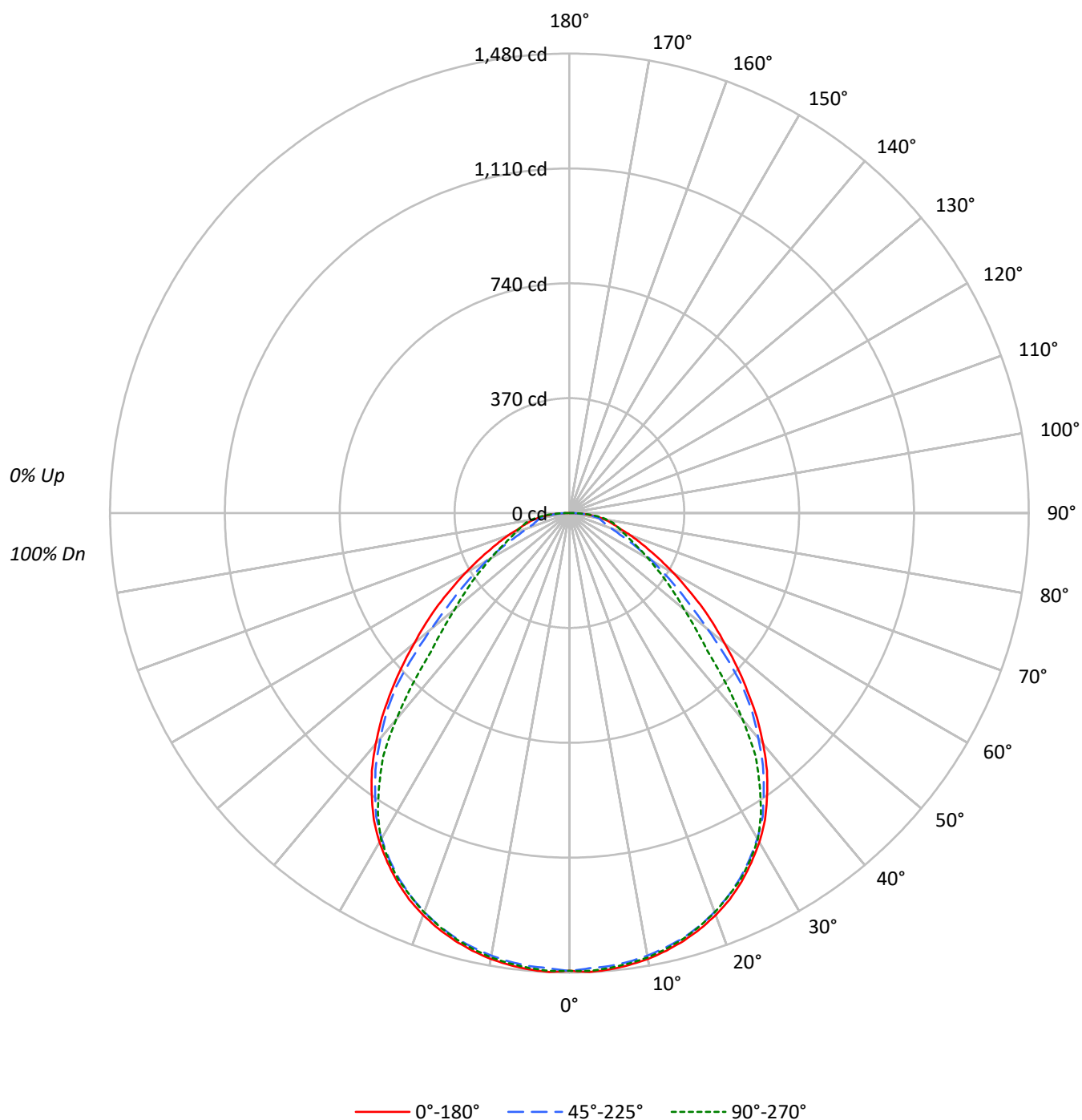
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		51
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°	3968	3968	3968
5°	3987	3957	3975
10°	3986	3955	3971
15°	3972	3947	3953
20°	3945	3915	3920
25°	3893	3857	3868
30°	3804	3762	3771
35°	3647	3585	3509
40°	3410	3326	3052
45°	3086	2998	2393
50°	2730	2426	2018
55°	2416	1994	1780
60°	2086	1650	1577
65°	1813	1312	1451
70°	1640	1127	1451
75°	1574	1177	1621
80°	1754	1499	1894
85°	1853	1596	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.3
10°-20°	400.8	12.4
20°-30°	599.8	18.6
30°-40°	679.0	21.0
40°-50°	578.4	17.9
50°-60°	391.6	12.1
60°-70°	233.8	7.2
70°-80°	146.1	4.5
80°-90°	61.7	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°	1140.5	35.3
0°-40°	1819.5	56.3
0°-60°	2789.4	86.3
0°-90°	3231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1476	1472	1465	1474	1471	140
15°	1426	1420	1417	1426	1419	402
25°	1311	1307	1299	1305	1303	603
35°	1110	1103	1091	1080	1068	692
45°	811	813	788	672	629	625
55°	515	486	425	379	379	460
65°	285	238	206	220	228	287
75°	151	136	113	148	156	164
85°	60	56	52	65	74	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.4	1474.4	1474.4	1474.4	1474.4
2.5°	1479.7	1475.9	1467.7	1477.4	1475.9
5°	1475.9	1472.2	1464.7	1473.7	1471.4
7.5°	1468.4	1464.7	1457.9	1466.9	1463.2
10°	1458.7	1454.2	1447.4	1457.2	1453.4
12.5°	1443.7	1439.2	1433.2	1442.9	1437.7
15°	1425.7	1420.4	1416.7	1425.7	1418.9
17.5°	1403.9	1399.4	1394.2	1403.2	1395.7
20°	1377.7	1374.0	1367.2	1372.5	1368.7
22.5°	1347.7	1342.5	1335.7	1341.7	1336.5
25°	1311.0	1307.3	1299.0	1305.0	1302.8
27.5°	1269.0	1266.8	1257.0	1264.5	1260.8
30°	1224.1	1218.1	1210.6	1212.8	1213.6
32.5°	1172.3	1164.8	1158.8	1153.6	1148.3
35°	1110.1	1103.4	1091.4	1080.1	1068.1
37.5°	1045.7	1036.7	1024.7	999.9	984.9
40°	970.7	966.2	946.7	912.2	868.8
42.5°	894.2	889.7	872.5	795.3	748.1
45°	811.0	813.3	787.8	671.6	628.9
47.5°	731.6	737.6	682.1	573.4	550.9
50°	652.1	658.9	579.4	495.5	482.0
52.5°	582.4	577.2	494.0	434.8	428.8
55°	515.0	486.5	425.0	379.3	379.3
57.5°	446.0	405.5	361.3	332.1	332.1
60°	387.5	337.3	306.6	287.1	293.1
62.5°	333.6	280.3	254.1	250.4	257.9
65°	284.8	237.6	206.1	220.4	227.9
67.5°	245.1	203.1	169.4	199.4	203.9
70°	208.4	176.9	143.2	183.6	184.4
72.5°	174.7	155.9	122.9	166.4	169.4
75°	151.4	135.7	113.2	148.4	155.9
77.5°	132.7	116.2	104.2	128.2	142.4
80°	113.2	95.2	96.7	107.9	122.2
82.5°	87.0	73.5	76.5	88.4	99.7
85°	60.0	55.5	51.7	65.2	73.5
87.5°	32.2	30.0	26.2	36.7	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)