

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: P291318

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291318
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-LD5-36-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

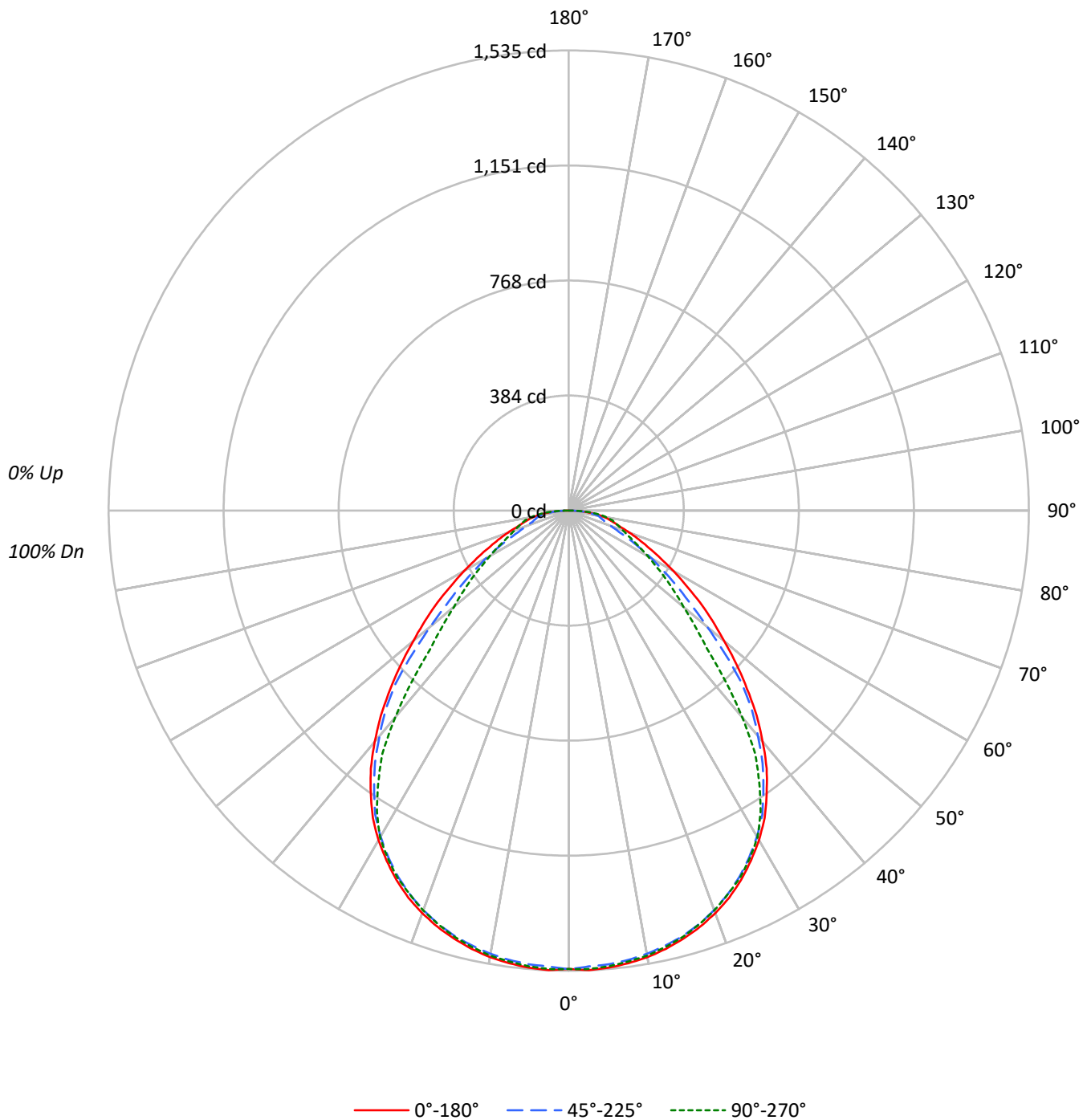
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4115	4115	4115
5°	4135	4103	4122
10°	4134	4102	4119
15°	4119	4093	4100
20°	4092	4061	4065
25°	4037	4000	4012
30°	3945	3901	3911
35°	3782	3718	3639
40°	3536	3449	3165
45°	3201	3110	2482
50°	2831	2516	2093
55°	2506	2068	1846
60°	2163	1711	1636
65°	1881	1361	1505
70°	1700	1168	1504
75°	1632	1221	1681
80°	1819	1554	1963
85°	1920	1655	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	4.3
10°-20°	415.7	12.4
20°-30°	622.1	18.6
30°-40°	704.2	21.0
40°-50°	599.8	17.9
50°-60°	406.1	12.1
60°-70°	242.5	7.2
70°-80°	151.5	4.5
80°-90°	64.0	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°	1182.8	35.3
0°-40°	1887.0	56.3
0°-60°	2893.0	86.3
0°-90°	3351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1531	1527	1519	1528	1526	146
15°	1479	1473	1469	1479	1472	417
25°	1360	1356	1347	1354	1351	625
35°	1151	1144	1132	1120	1108	718
45°	841	844	817	697	652	649
55°	534	504	441	393	393	478
65°	295	246	214	229	236	298
75°	157	141	117	154	162	170
85°	62	58	54	68	76	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.2	1529.2	1529.2	1529.2	1529.2
2.5°	1534.6	1530.7	1522.2	1532.3	1530.7
5°	1530.7	1526.8	1519.1	1528.4	1526.1
7.5°	1522.9	1519.1	1512.1	1521.4	1517.5
10°	1512.8	1508.2	1501.2	1511.3	1507.4
12.5°	1497.3	1492.6	1486.4	1496.5	1491.1
15°	1478.6	1473.2	1469.3	1478.6	1471.6
17.5°	1456.1	1451.4	1446.0	1455.3	1447.5
20°	1428.9	1425.0	1418.0	1423.4	1419.6
22.5°	1397.8	1392.3	1385.3	1391.6	1386.1
25°	1359.7	1355.8	1347.3	1353.5	1351.1
27.5°	1316.2	1313.8	1303.7	1311.5	1307.6
30°	1269.5	1263.3	1255.5	1257.9	1258.6
32.5°	1215.9	1208.1	1201.9	1196.4	1191.0
35°	1151.3	1144.3	1131.9	1120.2	1107.8
37.5°	1084.5	1075.2	1062.7	1037.1	1021.5
40°	1006.7	1002.1	981.9	946.1	901.0
42.5°	927.5	922.8	904.9	824.8	775.9
45°	841.2	843.5	817.1	696.6	652.2
47.5°	758.8	765.0	707.4	594.7	571.4
50°	676.3	683.3	600.9	513.9	499.9
52.5°	604.0	598.6	512.3	450.9	444.7
55°	534.1	504.5	440.8	393.4	393.4
57.5°	462.6	420.6	374.7	344.4	344.4
60°	401.9	349.8	318.0	297.7	304.0
62.5°	345.9	290.8	263.5	259.7	267.4
65°	295.4	246.4	213.8	228.6	236.3
67.5°	254.2	210.7	175.7	206.8	211.5
70°	216.1	183.5	148.5	190.5	191.2
72.5°	181.1	161.7	127.5	172.6	175.7
75°	157.0	140.7	117.4	153.9	161.7
77.5°	137.6	120.5	108.1	132.9	147.7
80°	117.4	98.7	100.3	111.9	126.7
82.5°	90.2	76.2	79.3	91.7	103.4
85°	62.2	57.5	53.6	67.6	76.2
87.5°	33.4	31.1	27.2	38.1	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)