

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: P291267

Luminaire Tested: **14GR-LD5-36-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291267
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-L93050-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: 3454.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

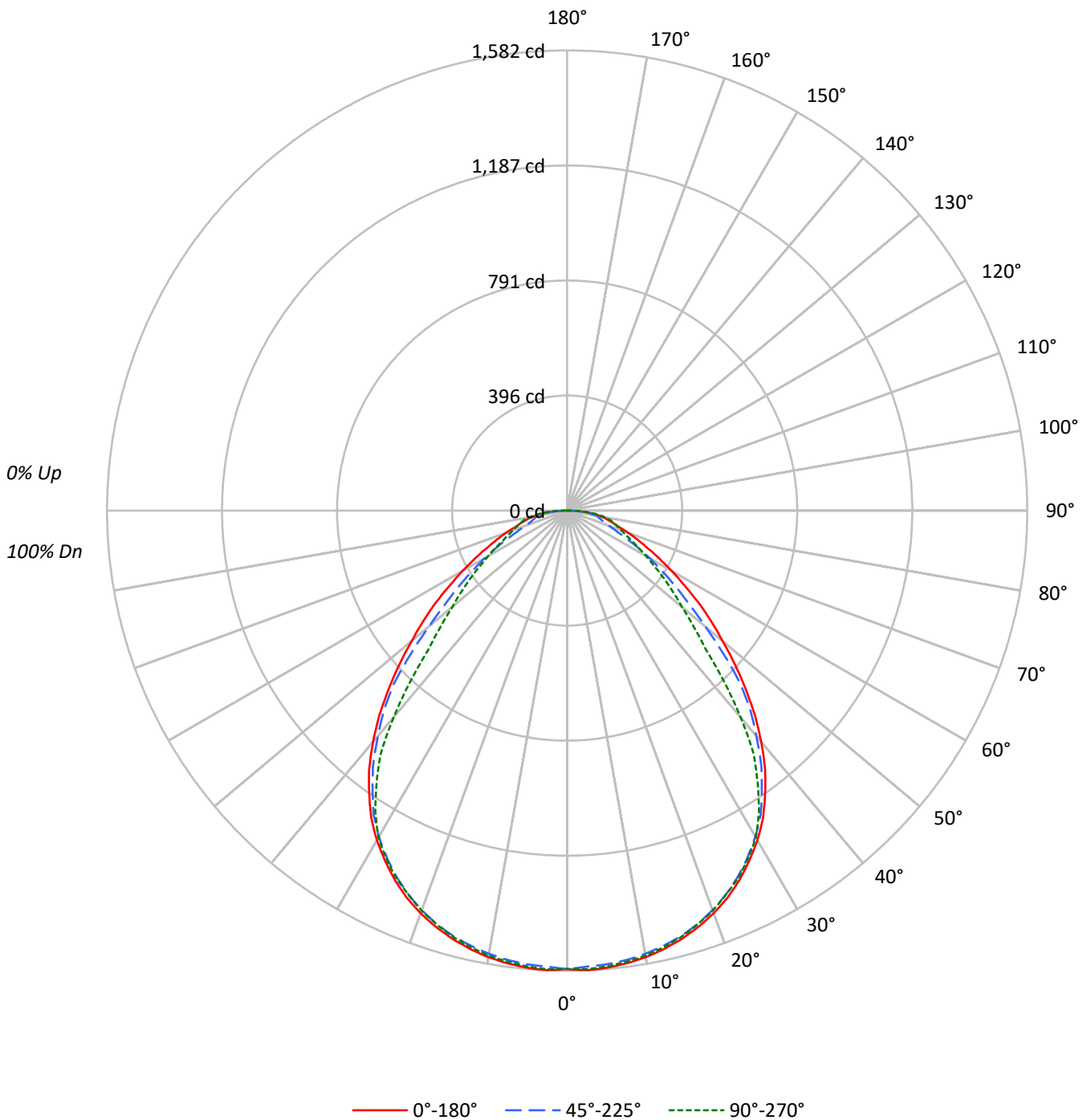
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4242	4242	4242
5°	4262	4230	4249
10°	4261	4228	4245
15°	4246	4219	4226
20°	4218	4186	4190
25°	4161	4123	4135
30°	4066	4021	4031
35°	3898	3833	3751
40°	3645	3555	3262
45°	3299	3205	2559
50°	2918	2593	2157
55°	2583	2131	1902
60°	2230	1764	1686
65°	1939	1403	1551
70°	1753	1204	1551
75°	1683	1258	1733
80°	1875	1602	2024
85°	1979	1707	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	4.3
10°-20°	428.5	12.4
20°-30°	641.2	18.6
30°-40°	725.8	21.0
40°-50°	618.3	17.9
50°-60°	418.6	12.1
60°-70°	249.9	7.2
70°-80°	156.1	4.5
80°-90°	66.0	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°	1219.2	35.3
0°-40°	1945.0	56.3
0°-60°	2981.9	86.3
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1578	1574	1566	1575	1573	150
15°	1524	1518	1514	1524	1517	430
25°	1402	1398	1389	1395	1393	645
35°	1187	1180	1167	1155	1142	740
45°	867	869	842	718	672	669
55°	550	520	454	406	406	492
65°	304	254	220	236	244	307
75°	162	145	121	159	167	175
85°	64	59	55	70	78	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.2	1576.2	1576.2	1576.2	1576.2
2.5°	1581.8	1577.8	1569.0	1579.4	1577.8
5°	1577.8	1573.8	1565.8	1575.4	1573.0
7.5°	1569.8	1565.8	1558.5	1568.2	1564.1
10°	1559.3	1554.5	1547.3	1557.7	1553.7
12.5°	1543.3	1538.5	1532.1	1542.5	1536.9
15°	1524.1	1518.5	1514.5	1524.1	1516.9
17.5°	1500.8	1496.0	1490.4	1500.0	1492.0
20°	1472.8	1468.8	1461.6	1467.2	1463.2
22.5°	1440.7	1435.1	1427.9	1434.3	1428.7
25°	1401.5	1397.5	1388.7	1395.1	1392.7
27.5°	1356.6	1354.2	1343.8	1351.8	1347.8
30°	1308.5	1302.1	1294.1	1296.5	1297.3
32.5°	1253.2	1245.2	1238.8	1233.2	1227.6
35°	1186.7	1179.5	1166.7	1154.7	1141.9
37.5°	1117.8	1108.2	1095.4	1068.9	1052.9
40°	1037.7	1032.9	1012.0	975.2	928.7
42.5°	956.0	951.2	932.7	850.2	799.7
45°	867.0	869.4	842.2	718.0	672.3
47.5°	782.1	788.5	729.2	613.0	589.0
50°	697.1	704.3	619.4	529.7	515.2
52.5°	622.6	617.0	528.1	464.8	458.3
55°	550.5	520.0	454.3	405.5	405.5
57.5°	476.8	433.5	386.2	355.0	355.0
60°	414.3	360.6	327.7	306.9	313.3
62.5°	356.6	299.7	271.6	267.6	275.6
65°	304.5	254.0	220.4	235.6	243.6
67.5°	262.0	217.2	181.1	213.1	218.0
70°	222.8	189.1	153.0	196.3	197.1
72.5°	186.7	166.7	131.4	177.9	181.1
75°	161.9	145.0	121.0	158.7	166.7
77.5°	141.8	124.2	111.4	137.0	152.2
80°	121.0	101.8	103.4	115.4	130.6
82.5°	93.0	78.5	81.7	94.6	106.6
85°	64.1	59.3	55.3	69.7	78.5
87.5°	34.5	32.1	28.0	39.3	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)