

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: P291268

Luminaire Tested: **14GR-LD5-40-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291268
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-LD5-40-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

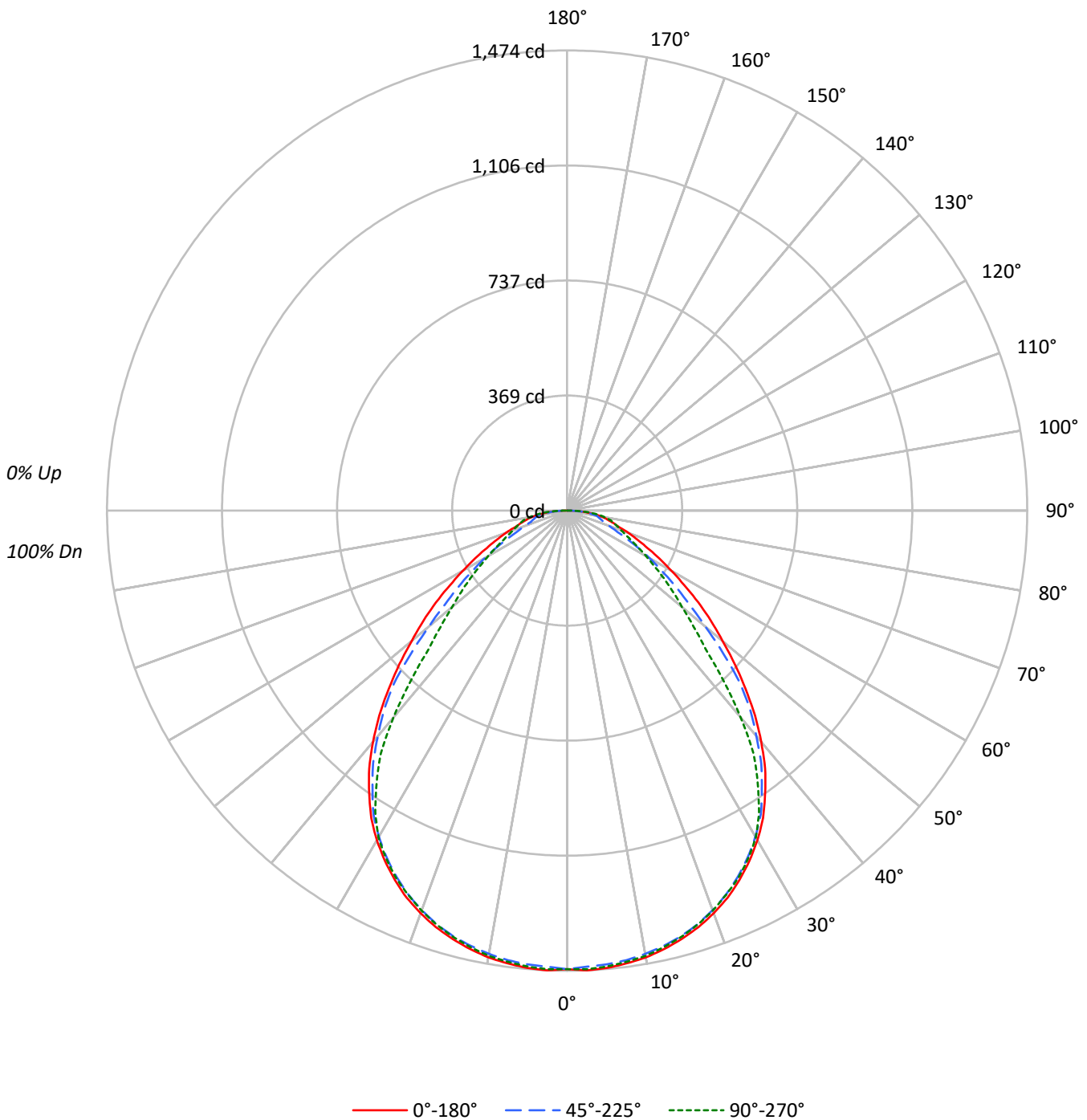
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3953	3953	3953
5°	3972	3942	3960
10°	3971	3940	3957
15°	3957	3932	3938
20°	3931	3901	3905
25°	3878	3843	3854
30°	3789	3748	3757
35°	3633	3572	3496
40°	3397	3313	3040
45°	3075	2987	2385
50°	2720	2417	2010
55°	2407	1986	1773
60°	2078	1644	1572
65°	1807	1308	1445
70°	1633	1122	1445
75°	1569	1173	1615
80°	1748	1492	1886
85°	1843	1590	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	4.3
10°-20°	399.3	12.4
20°-30°	597.6	18.6
30°-40°	676.5	21.0
40°-50°	576.2	17.9
50°-60°	390.1	12.1
60°-70°	232.9	7.2
70°-80°	145.5	4.5
80°-90°	61.5	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°	1136.2	35.3
0°-40°	1812.7	56.3
0°-60°	2779.0	86.3
0°-90°	3219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1470	1467	1459	1468	1466	140
15°	1420	1415	1411	1420	1414	401
25°	1306	1302	1294	1300	1298	601
35°	1106	1099	1087	1076	1064	689
45°	808	810	785	669	627	623
55°	513	485	423	378	378	459
65°	284	237	205	220	227	286
75°	151	135	113	148	155	163
85°	60	55	52	65	73	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.9	1468.9	1468.9	1468.9	1468.9
2.5°	1474.2	1470.4	1462.2	1471.9	1470.4
5°	1470.4	1466.7	1459.2	1468.2	1465.9
7.5°	1463.0	1459.2	1452.5	1461.5	1457.7
10°	1453.2	1448.8	1442.0	1451.8	1448.0
12.5°	1438.3	1433.8	1427.9	1437.6	1432.3
15°	1420.4	1415.2	1411.4	1420.4	1413.7
17.5°	1398.7	1394.3	1389.0	1398.0	1390.5
20°	1372.6	1368.9	1362.1	1367.4	1363.6
22.5°	1342.7	1337.5	1330.8	1336.7	1331.5
25°	1306.1	1302.4	1294.2	1300.2	1297.9
27.5°	1264.3	1262.1	1252.4	1259.8	1256.1
30°	1219.5	1213.5	1206.1	1208.3	1209.0
32.5°	1168.0	1160.5	1154.5	1149.3	1144.1
35°	1106.0	1099.3	1087.3	1076.1	1064.2
37.5°	1041.8	1032.8	1020.9	996.2	981.3
40°	967.1	962.6	943.2	908.8	865.5
42.5°	890.9	886.4	869.3	792.3	745.3
45°	808.0	810.3	784.9	669.1	626.6
47.5°	728.9	734.8	679.6	571.3	548.9
50°	649.7	656.4	577.3	493.6	480.2
52.5°	580.3	575.0	492.1	433.1	427.2
55°	513.0	484.7	423.4	377.9	377.9
57.5°	444.3	404.0	360.0	330.8	330.8
60°	386.1	336.1	305.4	286.0	292.0
62.5°	332.3	279.3	253.2	249.4	256.9
65°	283.8	236.7	205.4	219.6	227.0
67.5°	244.2	202.4	168.8	198.6	203.1
70°	207.6	176.2	142.6	183.0	183.7
72.5°	174.0	155.3	122.5	165.8	168.8
75°	150.9	135.2	112.8	147.9	155.3
77.5°	132.2	115.8	103.8	127.7	141.9
80°	112.8	94.8	96.3	107.5	121.7
82.5°	86.6	73.2	76.2	88.1	99.3
85°	59.7	55.3	51.5	65.0	73.2
87.5°	32.1	29.9	26.1	36.6	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)