

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: P291274

Luminaire Tested: **14GR-LD5-43-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291274
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-LD5-43-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

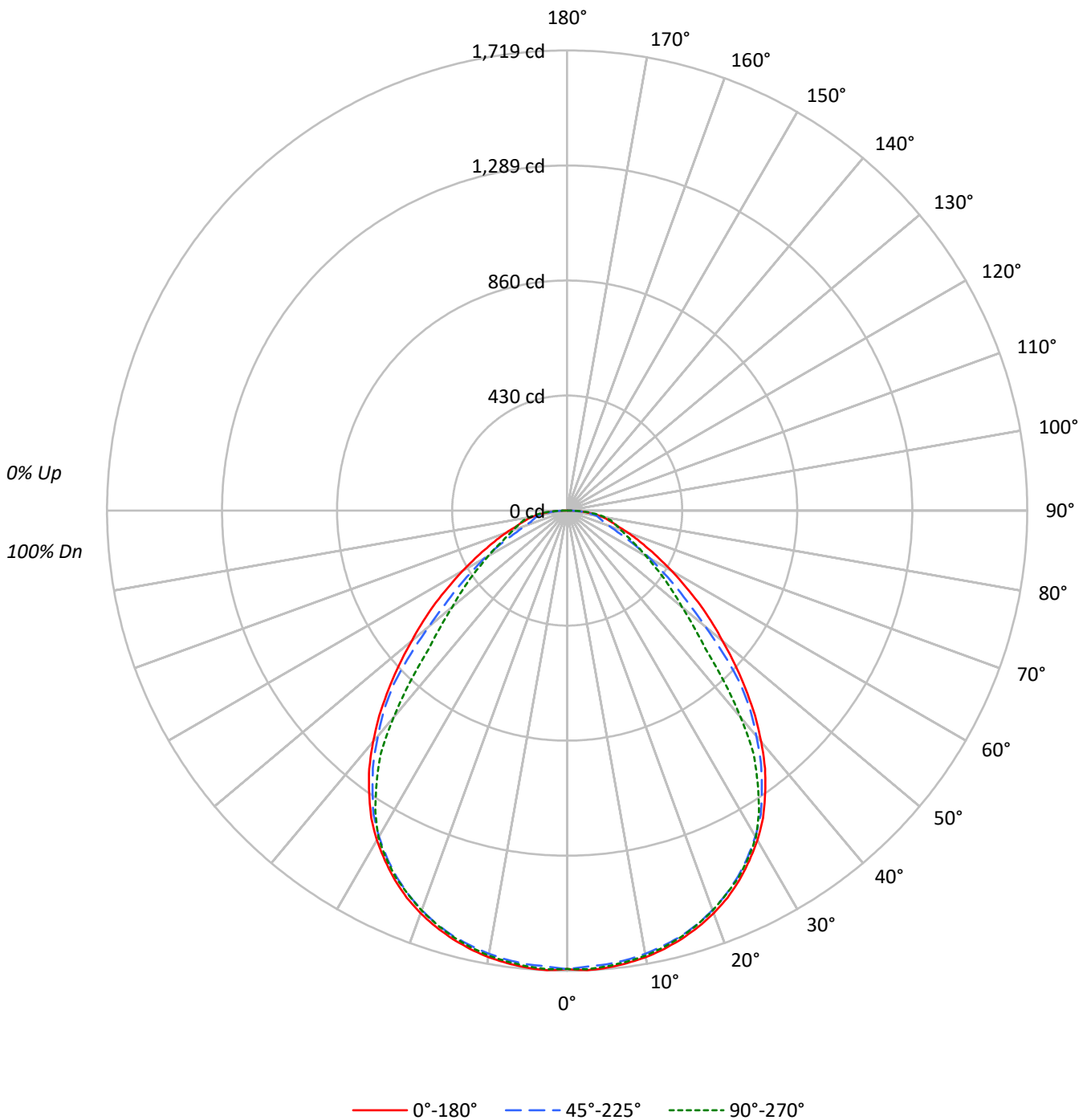
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4609	4609	4609
5°	4631	4596	4617
10°	4630	4594	4613
15°	4613	4584	4592
20°	4583	4548	4553
25°	4521	4480	4493
30°	4418	4369	4380
35°	4236	4164	4076
40°	3961	3863	3545
45°	3585	3483	2780
50°	3171	2817	2344
55°	2807	2316	2067
60°	2422	1917	1832
65°	2107	1524	1685
70°	1904	1308	1685
75°	1829	1367	1883
80°	2038	1740	2199
85°	2152	1856	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	4.3
10°-20°	465.5	12.4
20°-30°	696.7	18.6
30°-40°	788.7	21.0
40°-50°	671.8	17.9
50°-60°	454.9	12.1
60°-70°	271.6	7.2
70°-80°	169.7	4.5
80°-90°	71.7	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°	1324.7	35.3
0°-40°	2113.4	56.3
0°-60°	3240.1	86.3
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1714	1710	1701	1712	1709	163
15°	1656	1650	1646	1656	1648	467
25°	1523	1518	1509	1516	1513	700
35°	1290	1282	1268	1255	1241	804
45°	942	945	915	780	730	727
55°	598	565	494	441	441	535
65°	331	276	239	256	265	333
75°	176	158	132	172	181	190
85°	70	64	60	76	85	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1718.7	1714.4	1704.8	1716.1	1714.4
5°	1714.4	1710.0	1701.3	1711.7	1709.1
7.5°	1705.6	1701.3	1693.5	1703.9	1699.6
10°	1694.3	1689.1	1681.3	1692.6	1688.2
12.5°	1676.9	1671.7	1664.7	1676.0	1669.9
15°	1656.0	1649.9	1645.6	1656.0	1648.2
17.5°	1630.8	1625.5	1619.5	1629.9	1621.2
20°	1600.3	1595.9	1588.1	1594.2	1589.8
22.5°	1565.5	1559.4	1551.5	1558.5	1552.4
25°	1522.8	1518.5	1508.9	1515.8	1513.2
27.5°	1474.0	1471.4	1460.1	1468.8	1464.5
30°	1421.8	1414.8	1406.1	1408.7	1409.6
32.5°	1361.7	1353.0	1346.1	1340.0	1333.9
35°	1289.5	1281.6	1267.7	1254.6	1240.7
37.5°	1214.6	1204.1	1190.2	1161.5	1144.1
40°	1127.5	1122.3	1099.7	1059.6	1009.1
42.5°	1038.7	1033.5	1013.5	923.8	868.9
45°	942.1	944.7	915.1	780.1	730.5
47.5°	849.8	856.7	792.3	666.1	639.9
50°	757.5	765.3	673.0	575.5	559.8
52.5°	676.5	670.4	573.8	505.0	498.0
55°	598.2	565.1	493.7	440.6	440.6
57.5°	518.0	471.0	419.7	385.7	385.7
60°	450.1	391.8	356.1	333.5	340.4
62.5°	387.4	325.6	295.2	290.8	299.5
65°	330.9	276.0	239.4	256.0	264.7
67.5°	284.7	236.0	196.8	231.6	236.8
70°	242.0	205.5	166.3	213.3	214.2
72.5°	202.9	181.1	142.8	193.3	196.8
75°	175.9	157.6	131.5	172.4	181.1
77.5°	154.1	135.0	121.0	148.9	165.4
80°	131.5	110.6	112.3	125.4	141.9
82.5°	101.0	85.3	88.8	102.7	115.8
85°	69.7	64.4	60.1	75.7	85.3
87.5°	37.4	34.8	30.5	42.7	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)