

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: P213478

Luminaire Tested: **14GR-LD5-43-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3460.3 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

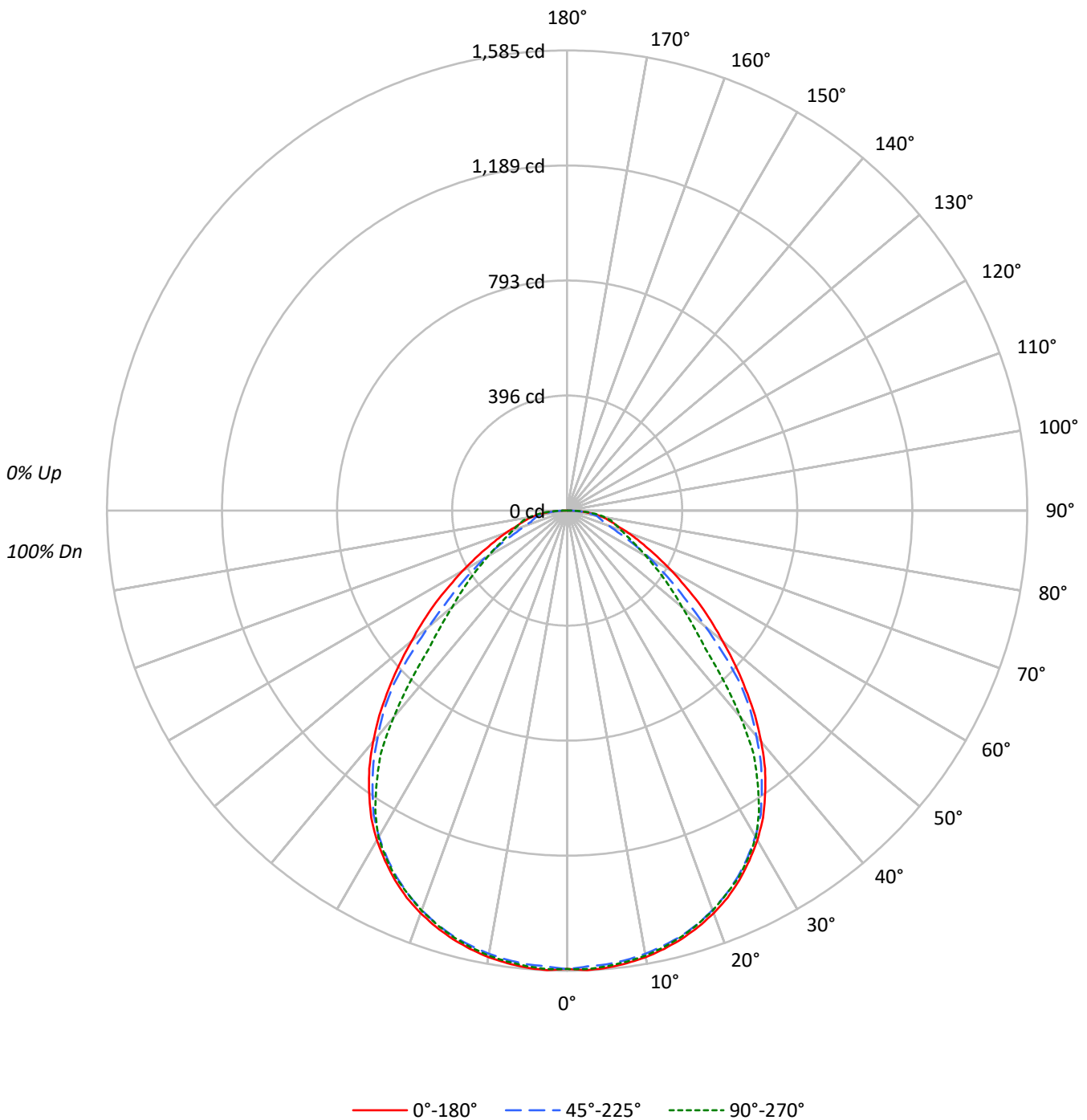
Input Watts (W): 42
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5321	5321	5321
5°	5347	5306	5330
10°	5345	5304	5326
15°	5327	5293	5301
20°	5291	5250	5256
25°	5220	5172	5187
30°	5101	5044	5057
35°	4891	4808	4705
40°	4573	4460	4093
45°	4139	4020	3209
50°	3661	3253	2706
55°	3240	2674	2386
60°	2797	2212	2115
65°	2432	1760	1945
70°	2199	1510	1946
75°	2112	1578	2174
80°	2352	2010	2540
85°	2482	2142	3043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.3
10°-20°	429.2	12.4
20°-30°	642.4	18.6
30°-40°	727.2	21.0
40°-50°	619.4	17.9
50°-60°	419.4	12.1
60°-70°	250.4	7.2
70°-80°	156.4	4.5
80°-90°	66.1	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°	1221.4	35.3
0°-40°	1948.6	56.3
0°-60°	2987.3	86.3
0°-90°	3460.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1581	1577	1569	1578	1576	150
15°	1527	1521	1517	1527	1520	431
25°	1404	1400	1391	1398	1395	646
35°	1189	1182	1169	1157	1144	741
45°	869	871	844	719	674	670
55°	552	521	455	406	406	493
65°	305	254	221	236	244	307
75°	162	145	121	159	167	175
85°	64	59	55	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.0	1579.0	1579.0	1579.0	1579.0
2.5°	1584.6	1580.7	1571.8	1582.2	1580.7
5°	1580.7	1576.6	1568.6	1578.2	1575.8
7.5°	1572.6	1568.6	1561.4	1571.0	1567.0
10°	1562.1	1557.3	1550.1	1560.6	1556.6
12.5°	1546.1	1541.3	1534.9	1545.3	1539.7
15°	1526.9	1521.2	1517.2	1526.9	1519.6
17.5°	1503.5	1498.7	1493.2	1502.8	1494.7
20°	1475.5	1471.4	1464.2	1469.8	1465.9
22.5°	1443.4	1437.7	1430.5	1437.0	1431.3
25°	1404.0	1400.0	1391.2	1397.6	1395.2
27.5°	1359.0	1356.6	1346.3	1354.2	1350.2
30°	1310.9	1304.5	1296.5	1298.9	1299.7
32.5°	1255.5	1247.5	1241.1	1235.5	1229.8
35°	1188.9	1181.7	1168.8	1156.8	1143.9
37.5°	1119.8	1110.2	1097.3	1070.9	1054.8
40°	1039.6	1034.8	1013.9	977.0	930.4
42.5°	957.7	952.8	934.4	851.7	801.1
45°	868.6	871.0	843.7	719.3	673.5
47.5°	783.5	789.9	730.5	614.1	590.0
50°	698.4	705.7	620.5	530.6	516.2
52.5°	623.7	618.1	529.0	465.6	459.2
55°	551.5	521.0	455.2	406.2	406.2
57.5°	477.7	434.3	386.9	355.7	355.7
60°	415.0	361.2	328.3	307.4	313.9
62.5°	357.2	300.2	272.2	268.1	276.1
65°	305.0	254.5	220.8	236.1	244.0
67.5°	262.5	217.5	181.4	213.6	218.4
70°	223.2	189.5	153.3	196.7	197.5
72.5°	187.1	167.0	131.6	178.2	181.4
75°	162.2	145.3	121.2	158.9	167.0
77.5°	142.1	124.4	111.6	137.3	152.6
80°	121.2	101.9	103.6	115.6	130.9
82.5°	93.1	78.7	81.9	94.7	106.7
85°	64.2	59.4	55.4	69.8	78.7
87.5°	34.5	32.1	28.1	39.3	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)