

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: P225876

Luminaire Tested: **14GR-LD5-36-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225876
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-LD5-36-A125-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

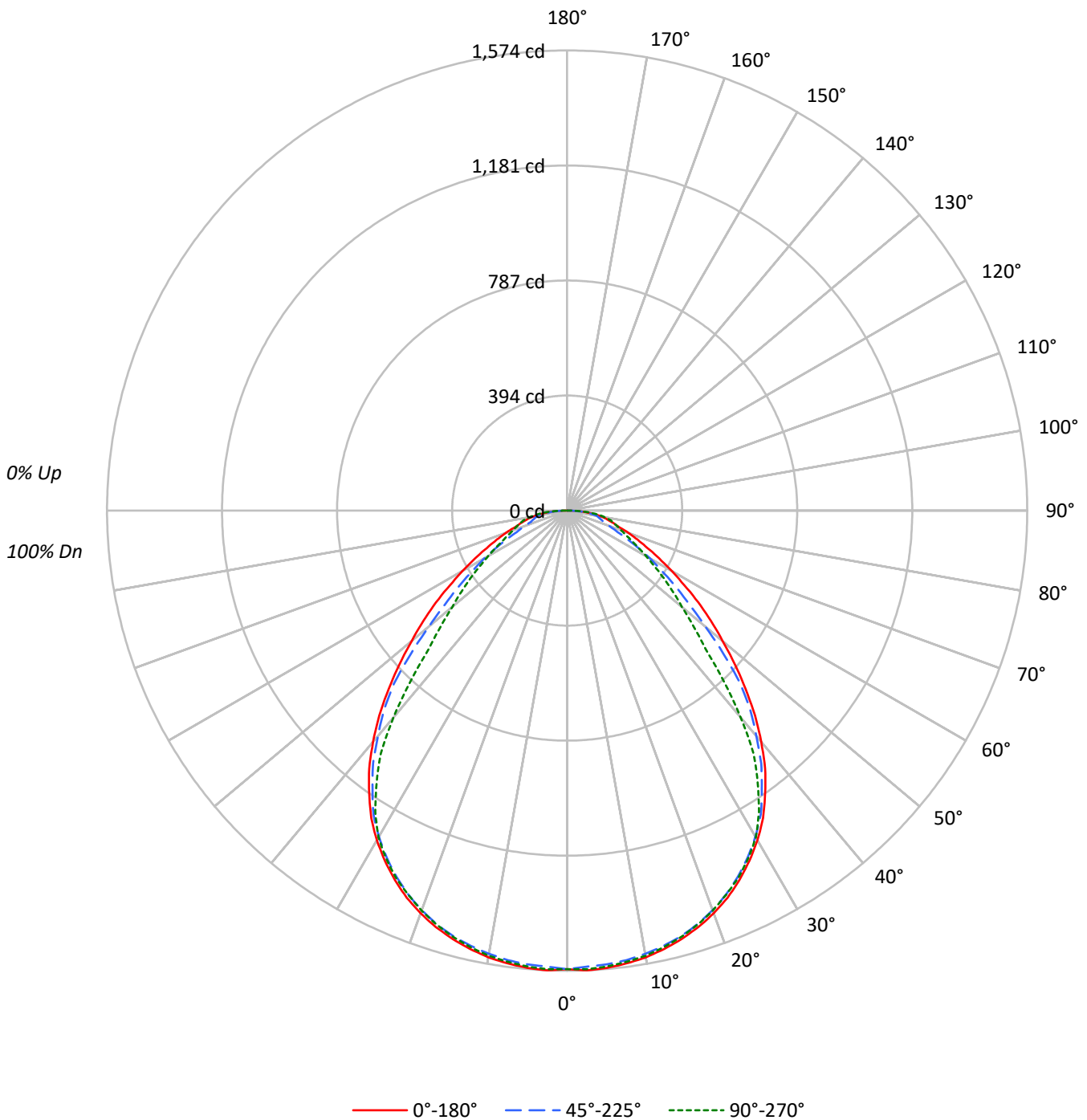
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5285	5285	5285
5°	5310	5270	5295
10°	5309	5268	5290
15°	5291	5257	5265
20°	5255	5216	5221
25°	5185	5137	5152
30°	5066	5010	5023
35°	4858	4776	4674
40°	4542	4430	4065
45°	4111	3993	3188
50°	3636	3231	2688
55°	3218	2656	2370
60°	2778	2198	2101
65°	2416	1748	1933
70°	2184	1500	1933
75°	2097	1567	2160
80°	2336	1995	2521
85°	2467	2130	3023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	4.3
10°-20°	426.4	12.4
20°-30°	638.1	18.6
30°-40°	722.3	21.0
40°-50°	615.2	17.9
50°-60°	416.6	12.1
60°-70°	248.7	7.2
70°-80°	155.4	4.5
80°-90°	65.7	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°	1213.2	35.3
0°-40°	1935.5	56.3
0°-60°	2967.3	86.3
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1570	1566	1558	1568	1565	149
15°	1517	1511	1507	1517	1509	428
25°	1395	1391	1382	1388	1386	641
35°	1181	1174	1161	1149	1136	736
45°	863	865	838	714	669	665
55°	548	518	452	404	404	490
65°	303	253	219	234	242	305
75°	161	144	120	158	166	174
85°	64	59	55	69	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1574.0	1570.0	1561.3	1571.7	1570.0
5°	1570.0	1566.0	1558.1	1567.7	1565.3
7.5°	1562.1	1558.1	1550.9	1560.5	1556.5
10°	1551.7	1546.9	1539.7	1550.1	1546.1
12.5°	1535.7	1531.0	1524.6	1535.0	1529.3
15°	1516.6	1511.1	1507.1	1516.6	1509.4
17.5°	1493.5	1488.7	1483.1	1492.7	1484.8
20°	1465.6	1461.6	1454.5	1460.0	1456.0
22.5°	1433.7	1428.1	1421.0	1427.3	1421.7
25°	1394.6	1390.7	1381.8	1388.2	1385.8
27.5°	1350.0	1347.5	1337.2	1345.2	1341.2
30°	1302.1	1295.7	1287.7	1290.2	1290.9
32.5°	1247.1	1239.1	1232.8	1227.1	1221.6
35°	1180.9	1173.7	1161.0	1149.1	1136.2
37.5°	1112.4	1102.7	1090.0	1063.7	1047.8
40°	1032.6	1027.8	1007.1	970.4	924.2
42.5°	951.3	946.5	928.1	846.0	795.8
45°	862.8	865.1	838.0	714.4	669.0
47.5°	778.2	784.6	725.6	610.0	586.0
50°	693.7	700.9	616.3	527.1	512.7
52.5°	619.5	614.0	525.4	462.5	456.1
55°	547.8	517.5	452.1	403.5	403.5
57.5°	474.5	431.3	384.3	353.3	353.3
60°	412.2	358.8	326.1	305.4	311.8
62.5°	354.8	298.2	270.3	266.4	274.3
65°	303.0	252.8	219.3	234.4	242.4
67.5°	260.7	216.1	180.2	212.1	216.9
70°	221.7	188.2	152.3	195.4	196.2
72.5°	185.8	165.9	130.8	177.0	180.2
75°	161.1	144.3	120.4	157.9	165.9
77.5°	141.1	123.6	110.8	136.3	151.5
80°	120.4	101.3	102.8	114.8	129.9
82.5°	92.5	78.2	81.4	94.1	106.0
85°	63.8	59.0	55.1	69.3	78.2
87.5°	34.3	31.8	27.9	39.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)