

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: P225924

Luminaire Tested: **14GR-LD5-36-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3245.6 lumens
Efficiency: N/A
Efficacy: 92.7 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

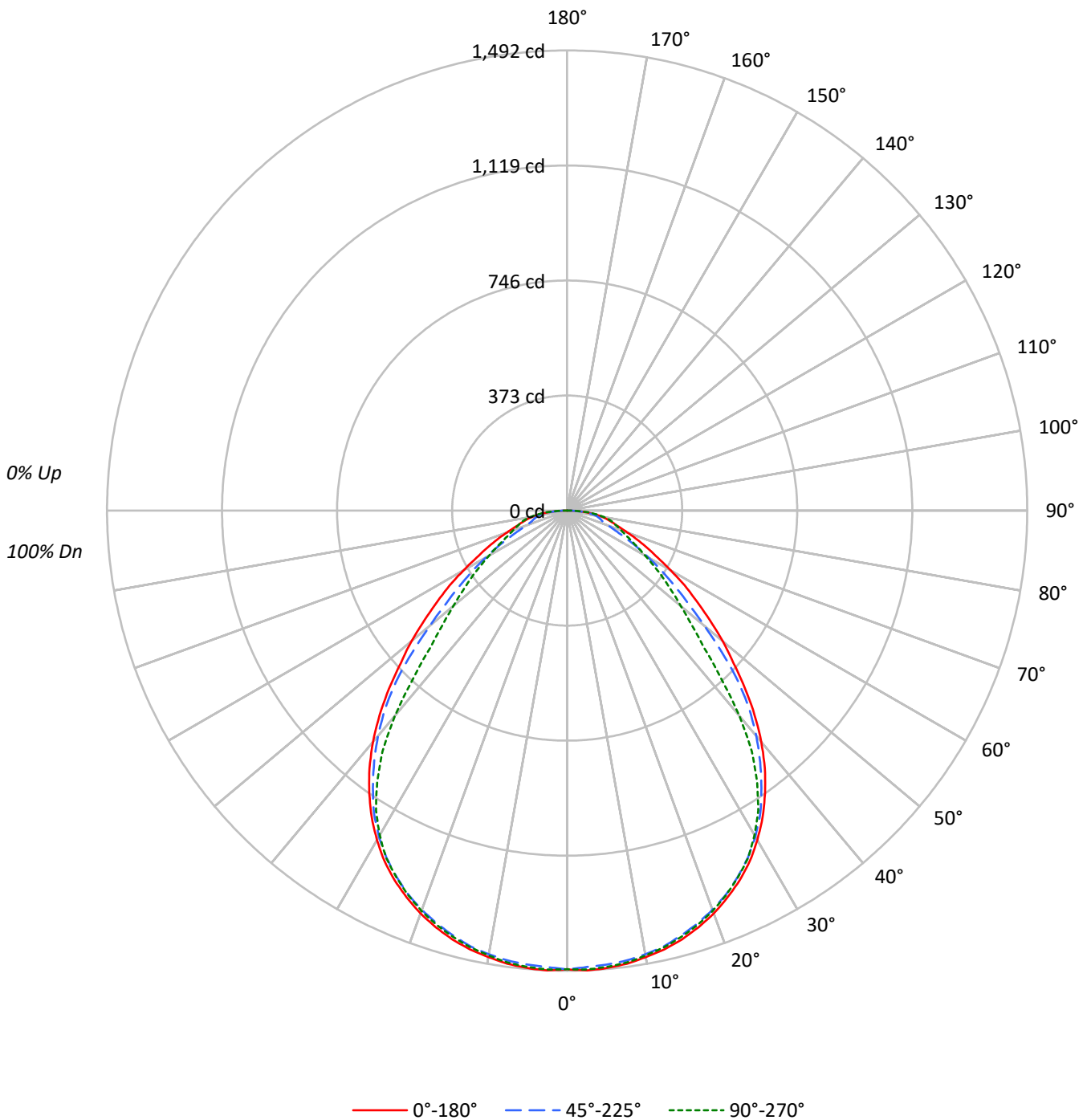
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225924

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225924

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L940-CD1-U

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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5012	5012	5012
5°	5036	4998	5023
10°	5030	4999	5012
15°	5020	4975	4991
20°	4984	4938	4952
25°	4918	4871	4874
30°	4798	4748	4728
35°	4602	4518	4416
40°	4307	4198	3820
45°	3890	3743	2985
50°	3450	3039	2525
55°	3011	2493	2228
60°	2611	2052	1966
65°	2290	1647	1815
70°	2042	1396	1827
75°	1992	1472	2041
80°	2210	1857	2340
85°	2300	1983	2741



TEST NUMBER: P225924

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	4.3
10°-20°	404.2	12.5
20°-30°	604.7	18.6
30°-40°	682.6	21.0
40°-50°	579.1	17.8
50°-60°	391.8	12.1
60°-70°	233.9	7.2
70°-80°	146.5	4.5
80°-90°	61.6	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°	1150.1	35.4
0°-40°	1832.7	56.5
0°-60°	2803.6	86.4
0°-90°	3245.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1489	1484	1478	1488	1485	142
15°	1439	1436	1426	1436	1431	406
25°	1323	1318	1310	1316	1311	608
35°	1119	1111	1098	1088	1074	697
45°	816	819	786	673	626	629
55°	513	488	424	380	379	462
65°	287	238	207	220	228	287
75°	153	136	113	149	157	165
85°	60	56	51	66	71	64
90°	0	0	0	0	0	



TEST NUMBER: P225924

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.3	1487.3	1487.3	1487.3	1487.3
2.5°	1492.5	1488.1	1481.3	1490.3	1489.5
5°	1488.8	1484.3	1477.5	1488.1	1485.0
7.5°	1482.0	1478.3	1471.5	1481.3	1478.3
10°	1470.0	1466.9	1460.9	1469.2	1464.7
12.5°	1457.2	1454.9	1447.4	1454.9	1450.4
15°	1439.0	1436.0	1426.2	1436.0	1430.8
17.5°	1416.4	1412.6	1404.4	1412.6	1408.2
20°	1390.0	1385.5	1377.2	1385.5	1381.0
22.5°	1358.4	1354.6	1347.1	1354.6	1348.6
25°	1322.9	1318.5	1310.1	1316.1	1310.9
27.5°	1282.3	1276.2	1268.7	1273.2	1270.2
30°	1233.2	1225.8	1220.4	1220.4	1215.2
32.5°	1179.7	1174.4	1165.4	1160.1	1153.3
35°	1118.7	1111.1	1098.3	1088.5	1073.5
37.5°	1053.1	1044.0	1028.2	1003.4	983.0
40°	979.2	967.9	954.3	905.3	868.4
42.5°	900.1	897.8	874.4	790.8	739.5
45°	816.4	819.4	785.5	673.2	626.4
47.5°	731.9	742.5	680.7	570.6	546.5
50°	658.1	661.9	579.7	495.3	481.7
52.5°	582.0	575.9	494.5	435.7	425.9
55°	512.6	488.5	424.4	379.9	379.2
57.5°	451.5	407.0	362.6	329.4	333.2
60°	387.4	337.7	304.5	286.5	291.7
62.5°	330.9	283.5	254.0	248.8	257.8
65°	287.2	238.2	206.6	220.1	227.6
67.5°	245.8	204.2	168.1	200.6	203.6
70°	207.3	177.2	141.7	184.7	185.4
72.5°	175.6	156.8	122.9	167.4	169.6
75°	153.0	136.5	113.1	149.3	156.8
77.5°	134.2	116.9	104.7	128.9	141.7
80°	113.9	94.3	95.7	107.8	120.6
82.5°	87.5	73.1	76.1	88.9	98.0
85°	59.5	56.5	51.3	66.3	70.9
87.5°	31.6	30.2	26.4	37.7	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)