

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: P183940

Luminaire Tested: **14SR-LD2-45-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-45-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4966.1 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

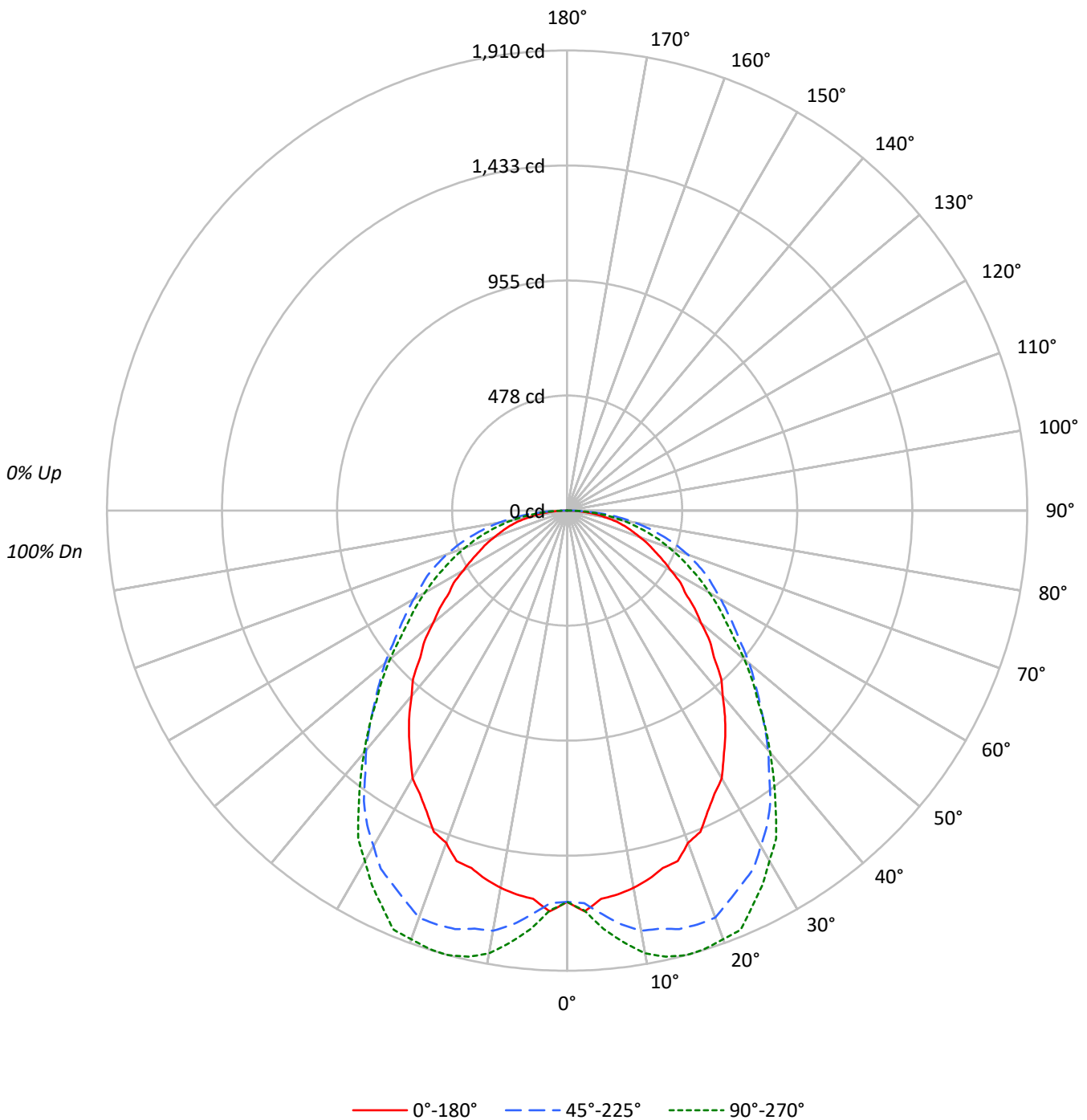
Input Watts (W): 37.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4371	4371	4371
5°	4369	4544	4710
10°	4345	4838	5099
15°	4279	5009	5322
20°	4203	5149	5422
25°	4095	5086	5389
30°	3989	4994	5216
35°	3759	4833	4956
40°	3529	4558	4605
45°	3279	4302	4263
50°	3036	4134	4020
55°	2812	3978	3770
60°	2676	3958	3665
65°	2558	4076	3578
70°	2519	4179	3537
75°	2549	4284	3540
80°	2479	4432	3589
85°	2418	4520	3575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.3
10°-20°	502.6	10.1
20°-30°	773.9	15.6
30°-40°	885.9	17.8
40°-50°	837.5	16.9
50°-60°	711.3	14.3
60°-70°	565.6	11.4
70°-80°	383.5	7.7
80°-90°	142.2	2.9
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°	1440.2	29.0
0°-40°	2326.2	46.8
0°-60°	3874.9	78.0
0°-90°	4966.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4966.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1618	1652	1682	1740	1744	154
15°	1536	1699	1798	1904	1910	435
25°	1379	1611	1713	1805	1815	636
35°	1144	1376	1471	1512	1508	715
45°	862	1066	1130	1144	1120	670
55°	599	780	848	828	804	545
65°	402	576	640	586	562	402
75°	245	395	412	354	340	257
85°	78	167	146	119	116	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1665.2	1641.3	1631.1	1665.2	1661.8
5°	1617.5	1651.5	1682.2	1740.1	1743.5
7.5°	1607.3	1685.6	1733.3	1804.8	1808.2
10°	1590.2	1692.4	1770.7	1855.8	1866.1
12.5°	1566.4	1699.2	1777.5	1883.1	1896.7
15°	1535.8	1699.2	1798.0	1903.5	1910.3
17.5°	1525.5	1699.2	1801.4	1893.3	1906.9
20°	1467.7	1682.2	1798.0	1879.7	1893.3
22.5°	1443.8	1651.5	1753.7	1852.4	1883.1
25°	1379.1	1610.7	1712.8	1804.8	1815.0
27.5°	1324.6	1566.4	1675.4	1753.7	1753.7
30°	1283.8	1511.9	1607.3	1682.2	1678.8
32.5°	1208.9	1437.0	1546.0	1603.9	1614.1
35°	1144.2	1375.7	1471.1	1511.9	1508.5
37.5°	1076.1	1297.4	1375.7	1423.4	1409.8
40°	1004.5	1219.1	1297.4	1328.0	1311.0
42.5°	946.7	1137.3	1212.3	1232.7	1215.7
45°	861.5	1065.8	1130.5	1144.2	1120.3
47.5°	803.6	987.5	1055.6	1055.6	1042.0
50°	725.3	912.6	987.5	967.1	960.3
52.5°	667.4	847.9	912.6	895.6	875.1
55°	599.3	779.8	847.9	827.5	803.6
57.5°	558.5	725.3	790.0	766.2	745.7
60°	497.2	670.8	735.5	704.9	681.0
62.5°	449.5	623.2	684.5	647.0	623.2
65°	401.8	575.5	640.2	585.7	561.9
67.5°	364.4	531.2	585.7	527.8	507.4
70°	320.1	480.1	531.2	469.9	449.5
72.5°	282.6	439.3	473.3	412.0	398.4
75°	245.2	395.0	412.0	354.1	340.5
77.5°	207.7	350.7	350.7	299.7	286.0
80°	160.0	299.7	286.0	241.8	231.6
82.5°	122.6	238.4	217.9	180.5	173.7
85°	78.3	166.9	146.4	119.2	115.8
87.5°	37.5	88.5	71.5	57.9	54.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)