

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: P183945

Luminaire Tested: **14SR-LD2-15-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-15-S-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: 1613.5 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

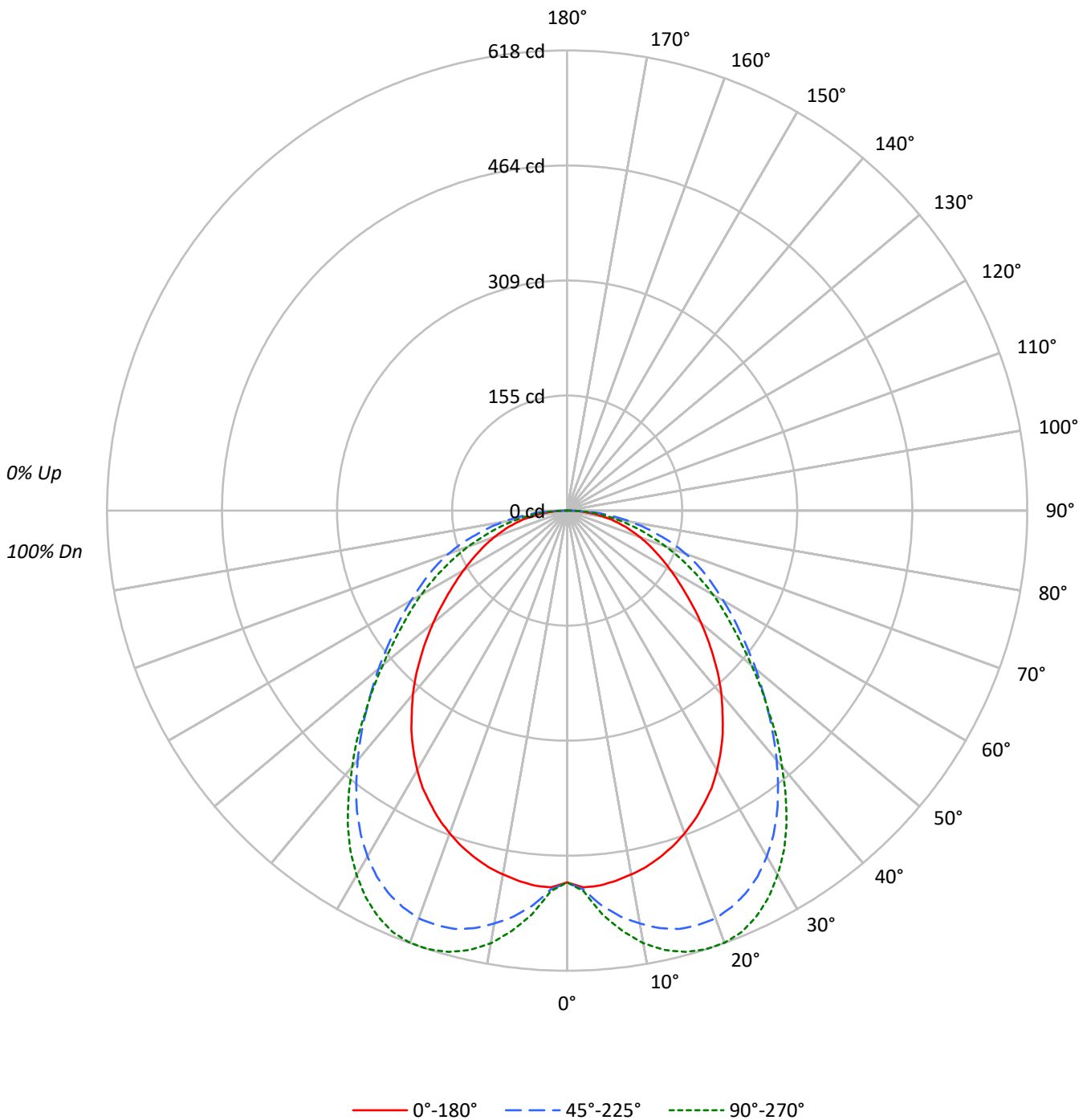
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	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	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	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°	1344	1344	1344
5°	1365	1438	1471
10°	1356	1539	1612
15°	1343	1621	1709
20°	1321	1669	1769
25°	1290	1684	1785
30°	1251	1667	1756
35°	1197	1617	1688
40°	1132	1537	1577
45°	1058	1454	1458
50°	983	1384	1353
55°	913	1328	1270
60°	864	1302	1219
65°	833	1311	1160
70°	818	1329	1109
75°	813	1328	1061
80°	798	1340	1037
85°	763	1399	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	3.2
10°-20°	159.9	9.9
20°-30°	250.8	15.5
30°-40°	292.5	18.1
40°-50°	278.3	17.2
50°-60°	234.9	14.6
60°-70°	183.1	11.3
70°-80°	119.4	7.4
80°-90°	43.5	2.7
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°	461.8	28.6
0°-40°	754.3	46.8
0°-60°	1267.6	78.6
0°-90°	1613.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	506	508	532	545	545	48
15°	482	529	582	607	614	136
25°	434	506	567	594	601	200
35°	364	436	492	510	514	227
45°	278	341	382	386	383	215
55°	195	255	283	275	271	175
65°	131	187	206	189	182	130
75°	78	126	128	107	102	82
85°	25	54	45	35	34	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.3	499.3	499.3	499.3	499.3
2.5°	506.5	500.4	509.6	515.8	511.7
5°	505.5	507.6	532.3	544.6	544.6
7.5°	501.4	515.8	549.8	566.2	569.3
10°	496.3	523.0	563.2	584.8	590.0
12.5°	490.1	528.1	574.5	598.2	604.4
15°	481.9	529.2	581.7	607.4	613.6
17.5°	472.5	527.2	583.7	611.6	617.7
20°	461.2	523.0	582.8	610.5	617.7
22.5°	448.9	515.8	576.5	604.4	612.6
25°	434.5	505.5	567.3	594.1	601.3
27.5°	420.0	491.1	553.9	578.6	585.8
30°	402.6	475.6	536.4	560.1	565.2
32.5°	384.0	457.1	515.8	537.4	541.6
35°	364.4	436.5	492.1	509.6	513.7
37.5°	342.8	412.8	465.3	480.8	481.9
40°	322.3	389.2	437.6	449.9	448.9
42.5°	300.6	365.5	409.8	418.0	418.0
45°	277.9	340.8	382.0	386.1	383.0
47.5°	256.3	318.2	355.2	356.2	353.1
50°	234.7	295.5	330.5	327.4	323.3
52.5°	214.2	273.9	305.8	299.6	295.5
55°	194.6	255.3	283.1	274.9	270.7
57.5°	177.1	236.8	262.6	252.2	248.1
60°	160.6	219.3	241.9	230.6	226.5
62.5°	145.2	202.9	223.4	210.1	203.8
65°	130.8	187.4	205.9	189.4	182.2
67.5°	117.4	171.9	188.4	167.8	161.7
70°	104.0	156.5	168.9	147.2	141.0
72.5°	90.6	141.0	150.3	126.6	120.5
75°	78.2	125.6	127.7	107.0	102.0
77.5°	64.9	112.2	108.1	88.5	83.4
80°	51.5	94.8	86.5	70.0	66.9
82.5°	38.1	74.1	65.9	52.5	50.4
85°	24.7	53.6	45.3	35.0	34.0
87.5°	12.4	28.8	22.7	17.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)