

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: P183900

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183900
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-LD2-15-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: 1618.4 lumens
Efficiency: N/A
Efficacy: 119.9 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

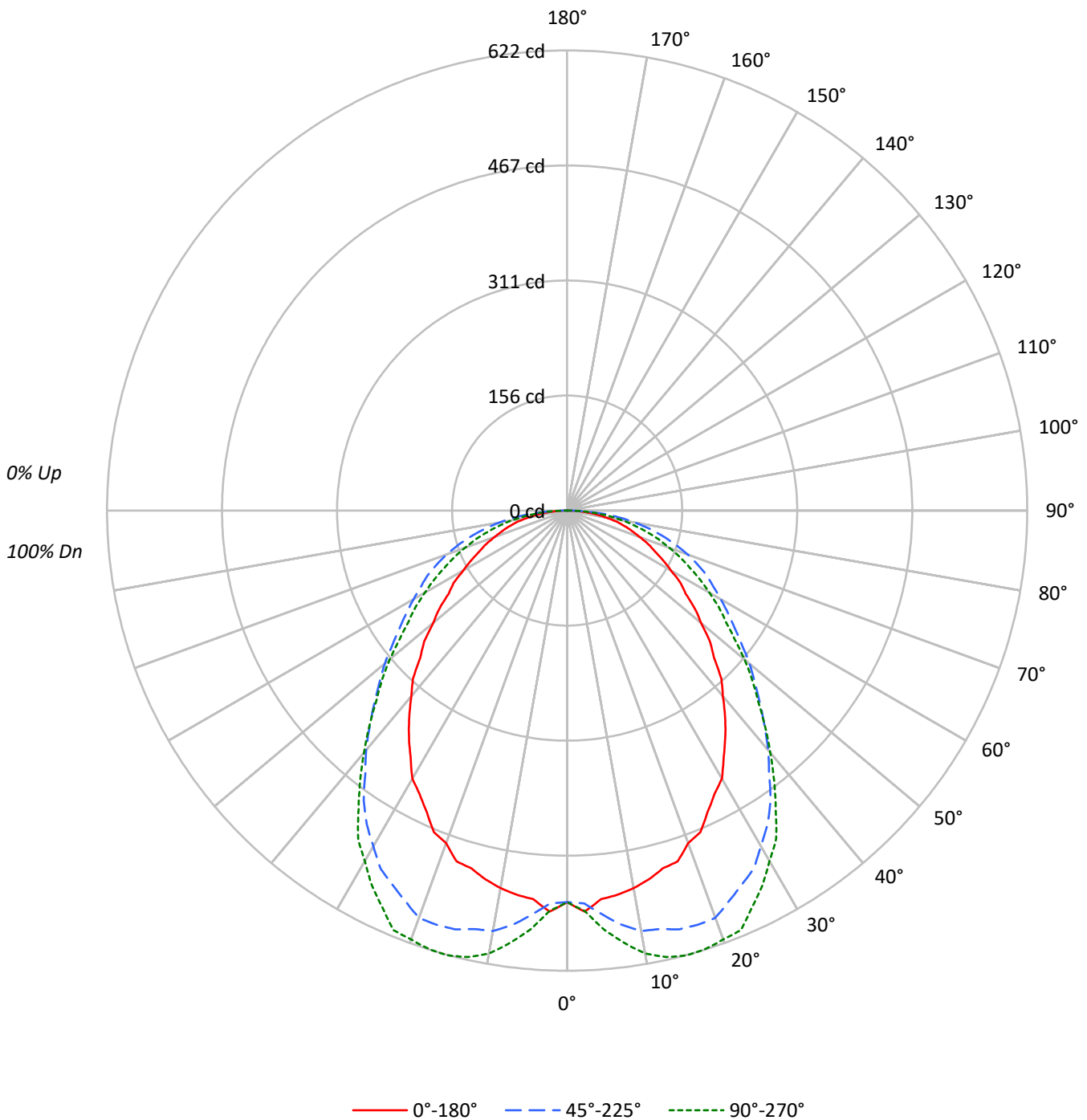
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1424	1424	1424
5°	1424	1481	1535
10°	1416	1577	1662
15°	1394	1632	1734
20°	1370	1678	1767
25°	1334	1657	1756
30°	1300	1628	1700
35°	1225	1575	1615
40°	1150	1485	1501
45°	1069	1402	1389
50°	990	1347	1310
55°	916	1296	1229
60°	872	1290	1194
65°	833	1328	1166
70°	821	1362	1153
75°	831	1396	1154
80°	809	1444	1170
85°	787	1473	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	3.3
10°-20°	163.8	10.1
20°-30°	252.2	15.6
30°-40°	288.7	17.8
40°-50°	272.9	16.9
50°-60°	231.8	14.3
60°-70°	184.3	11.4
70°-80°	125.0	7.7
80°-90°	46.3	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°	469.3	29.0
0°-40°	758.1	46.8
0°-60°	1262.8	78.0
0°-90°	1618.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1618.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	527	538	548	567	568	50
15°	500	554	586	620	622	142
25°	449	525	558	588	592	207
35°	373	448	479	493	492	233
45°	281	347	368	373	365	218
55°	195	254	276	270	262	177
65°	131	188	209	191	183	131
75°	80	129	134	115	111	84
85°	26	54	48	39	38	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.3	529.3	529.3	529.3	529.3
2.5°	542.6	534.9	531.5	542.6	541.5
5°	527.1	538.2	548.2	567.1	568.2
7.5°	523.8	549.3	564.8	588.1	589.3
10°	518.2	551.5	577.0	604.8	608.1
12.5°	510.5	553.7	579.3	613.7	618.1
15°	500.5	553.7	585.9	620.3	622.5
17.5°	497.1	553.7	587.0	617.0	621.4
20°	478.3	548.2	585.9	612.6	617.0
22.5°	470.5	538.2	571.5	603.7	613.7
25°	449.4	524.9	558.2	588.1	591.5
27.5°	431.7	510.5	546.0	571.5	571.5
30°	418.4	492.7	523.8	548.2	547.1
32.5°	393.9	468.3	503.8	522.7	526.0
35°	372.9	448.3	479.4	492.7	491.6
37.5°	350.7	422.8	448.3	463.9	459.4
40°	327.4	397.3	422.8	432.8	427.2
42.5°	308.5	370.6	395.1	401.7	396.2
45°	280.8	347.3	368.4	372.9	365.1
47.5°	261.9	321.8	344.0	344.0	339.6
50°	236.4	297.4	321.8	315.2	312.9
52.5°	217.5	276.3	297.4	291.9	285.2
55°	195.3	254.1	276.3	269.7	261.9
57.5°	182.0	236.4	257.5	249.7	243.0
60°	162.0	218.6	239.7	229.7	221.9
62.5°	146.5	203.1	223.1	210.8	203.1
65°	130.9	187.5	208.6	190.9	183.1
67.5°	118.7	173.1	190.9	172.0	165.3
70°	104.3	156.5	173.1	153.1	146.5
72.5°	92.1	143.2	154.2	134.3	129.8
75°	79.9	128.7	134.3	115.4	111.0
77.5°	67.7	114.3	114.3	97.7	93.2
80°	52.2	97.7	93.2	78.8	75.5
82.5°	39.9	77.7	71.0	58.8	56.6
85°	25.5	54.4	47.7	38.8	37.7
87.5°	12.2	28.9	23.3	18.9	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)