

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: P183942

Luminaire Tested: **14SR-LD2-15-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183942
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

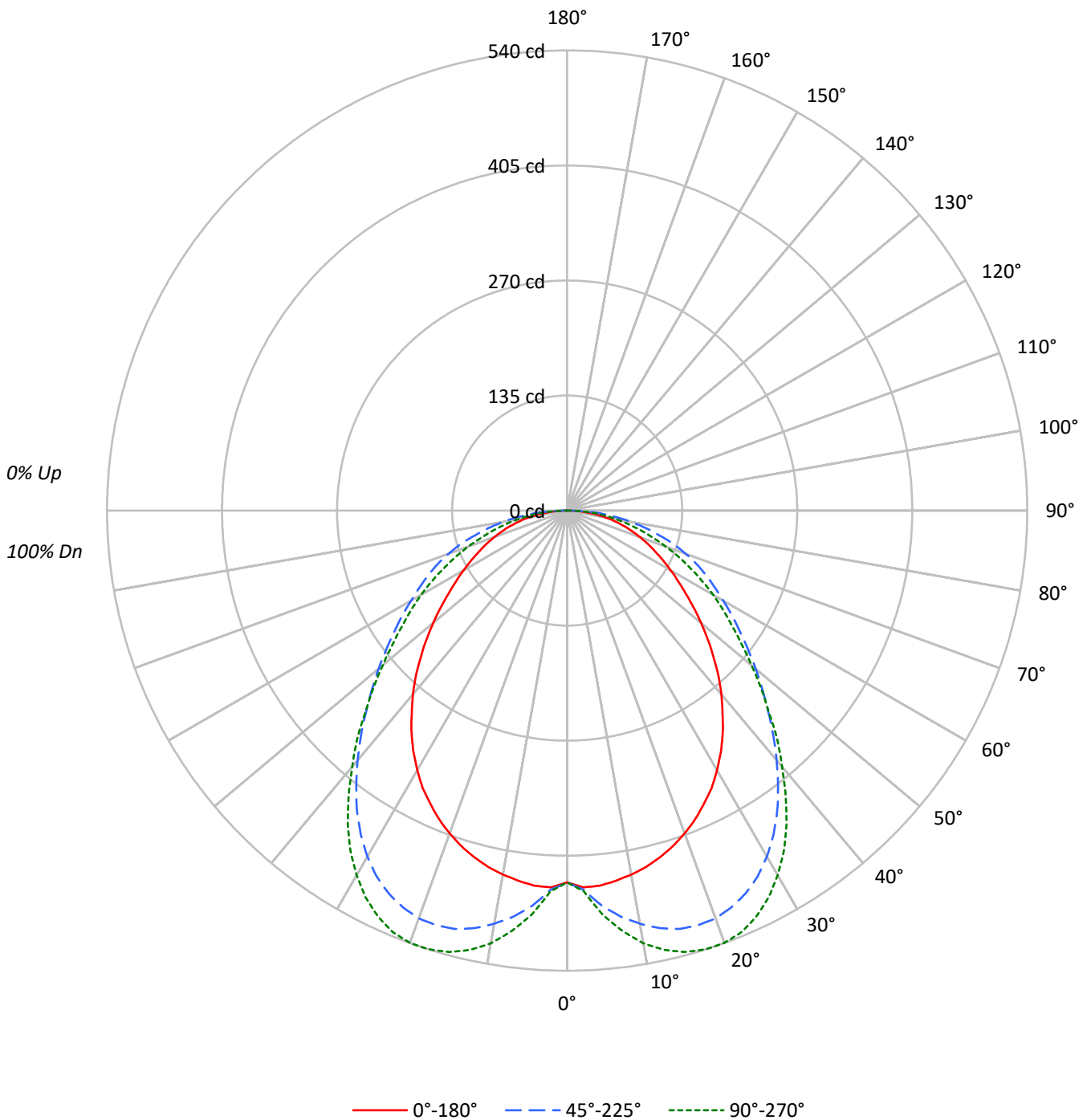
Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (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: P183942
CATALOG NUMBER: 14SR-LD2-15-S-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183942

CATALOG NUMBER: 14SR-LD2-15-S-UNV-L830-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	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°	1174	1174	1174
5°	1193	1257	1286
10°	1185	1345	1409
15°	1173	1416	1494
20°	1154	1458	1546
25°	1127	1472	1560
30°	1093	1457	1535
35°	1046	1413	1475
40°	989	1343	1378
45°	924	1270	1274
50°	859	1209	1183
55°	798	1161	1110
60°	755	1138	1066
65°	728	1145	1014
70°	715	1161	969
75°	710	1160	926
80°	697	1172	907
85°	667	1223	917



TEST NUMBER: P183942

CATALOG NUMBER: 14SR-LD2-15-S-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	3.2
10°-20°	139.7	9.9
20°-30°	219.2	15.5
30°-40°	255.6	18.1
40°-50°	243.2	17.2
50°-60°	205.3	14.6
60°-70°	160.0	11.3
70°-80°	104.3	7.4
80°-90°	38.0	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°	403.6	28.6
0°-40°	659.2	46.8
0°-60°	1107.7	78.6
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	442	444	465	476	476	42
15°	421	462	508	531	536	119
25°	380	442	496	519	525	175
35°	318	381	430	445	449	199
45°	243	298	334	337	335	188
55°	170	223	247	240	237	153
65°	114	164	180	166	159	114
75°	68	110	112	94	89	72
85°	22	47	40	31	30	24
90°	0	0	0	0	0	



TEST NUMBER: P183942

CATALOG NUMBER: 14SR-LD2-15-S-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	436.3	436.3	436.3	436.3	436.3
2.5°	442.6	437.3	445.4	450.7	447.1
5°	441.8	443.6	465.2	475.9	475.9
7.5°	438.1	450.7	480.4	494.8	497.5
10°	433.7	457.0	492.2	511.0	515.6
12.5°	428.2	461.5	502.0	522.7	528.2
15°	421.1	462.5	508.3	530.8	536.2
17.5°	412.9	460.7	510.1	534.5	539.8
20°	403.1	457.0	509.3	533.5	539.8
22.5°	392.3	450.7	503.8	528.2	535.3
25°	379.7	441.8	495.7	519.1	525.4
27.5°	367.1	429.2	484.1	505.6	511.9
30°	351.8	415.7	468.8	489.4	493.9
32.5°	335.6	399.5	450.7	469.6	473.3
35°	318.5	381.4	430.0	445.4	448.9
37.5°	299.6	360.8	406.6	420.2	421.1
40°	281.6	340.1	382.4	393.2	392.3
42.5°	262.7	319.4	358.1	365.3	365.3
45°	242.9	297.8	333.8	337.4	334.7
47.5°	224.0	278.0	310.4	311.3	308.6
50°	205.1	258.2	288.8	286.1	282.5
52.5°	187.1	239.3	267.2	261.8	258.2
55°	170.0	223.1	247.4	240.2	236.6
57.5°	154.7	207.0	229.4	220.4	216.8
60°	140.3	191.7	211.4	201.5	198.0
62.5°	126.9	177.3	195.2	183.6	178.1
65°	114.3	163.7	179.9	165.5	159.2
67.5°	102.6	150.2	164.7	146.6	141.3
70°	90.9	136.8	147.6	128.7	123.2
72.5°	79.2	123.2	131.3	110.6	105.3
75°	68.3	109.8	111.6	93.5	89.1
77.5°	56.7	98.0	94.5	77.4	72.9
80°	45.0	82.8	75.6	61.2	58.5
82.5°	33.3	64.8	57.6	45.9	44.1
85°	21.6	46.8	39.6	30.6	29.7
87.5°	10.8	25.2	19.8	15.3	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)