

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: P183898

Luminaire Tested: **14SR-LD2-15-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183898
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-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1458.1 lumens
Efficiency: N/A
Efficacy: 108.0 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

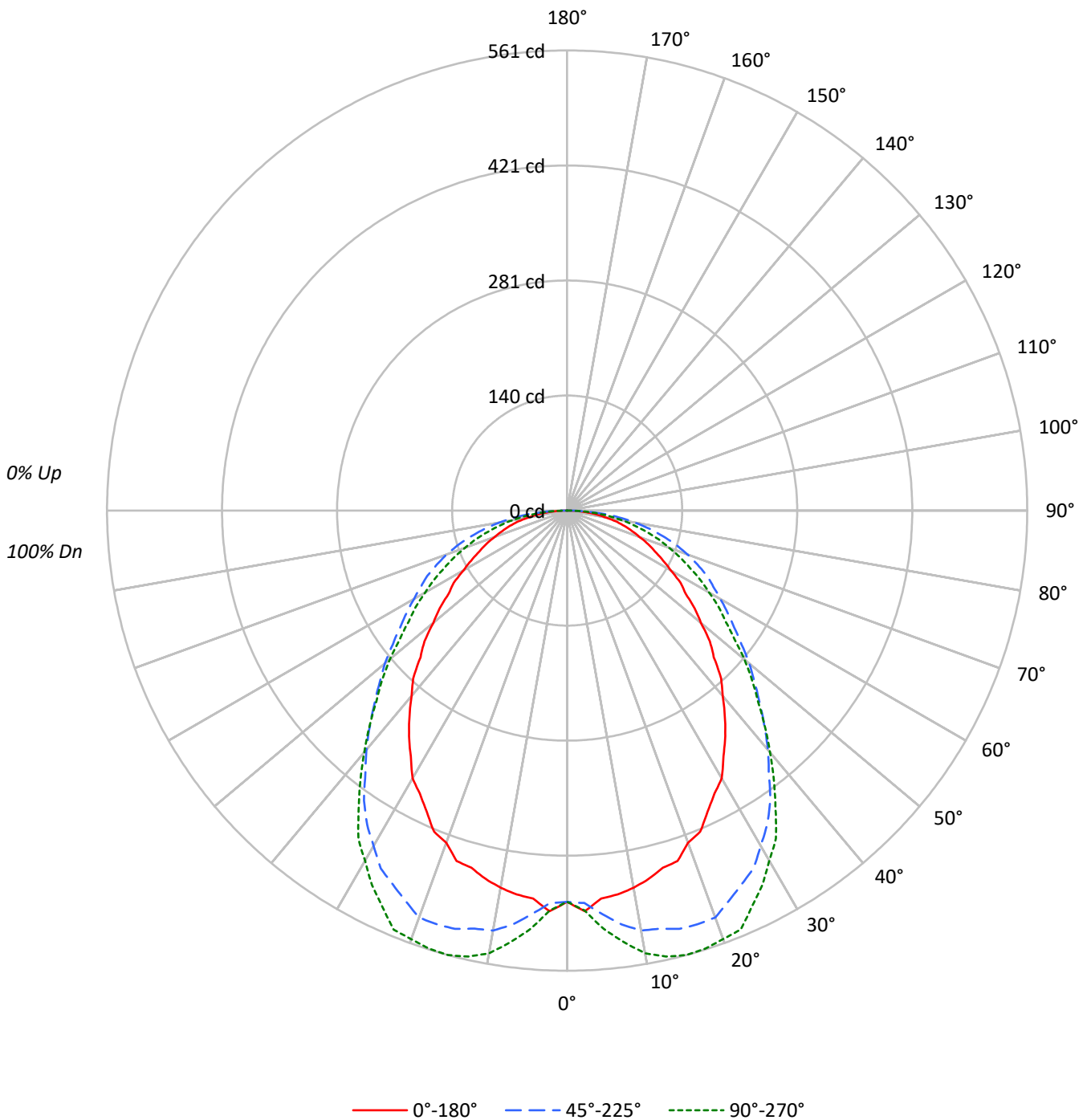
Input Watts (W): 13.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183898

CATALOG NUMBER: 14SR-LD2-15-C-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183898

CATALOG NUMBER: 14SR-LD2-15-C-UNV-L835-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	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°	1283	1283	1283
5°	1283	1334	1383
10°	1276	1421	1497
15°	1256	1471	1563
20°	1234	1512	1592
25°	1202	1493	1582
30°	1171	1466	1532
35°	1103	1419	1455
40°	1036	1338	1352
45°	962	1263	1252
50°	891	1214	1180
55°	826	1168	1107
60°	786	1162	1076
65°	751	1197	1051
70°	740	1227	1039
75°	749	1258	1040
80°	728	1302	1054
85°	710	1328	1050



TEST NUMBER: P183898

CATALOG NUMBER: 14SR-LD2-15-C-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	3.3
10°-20°	147.6	10.1
20°-30°	227.2	15.6
30°-40°	260.1	17.8
40°-50°	245.9	16.9
50°-60°	208.8	14.3
60°-70°	166.1	11.4
70°-80°	112.6	7.7
80°-90°	41.8	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°	422.9	29.0
0°-40°	683.0	46.8
0°-60°	1137.6	78.0
0°-90°	1458.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	475	485	494	511	512	45
15°	451	499	528	559	561	128
25°	405	473	503	530	533	187
35°	336	404	432	444	443	210
45°	253	313	332	336	329	197
55°	176	229	249	243	236	160
65°	118	169	188	172	165	118
75°	72	116	121	104	100	76
85°	23	49	43	35	34	25
90°	0	0	0	0	0	



TEST NUMBER: P183898

CATALOG NUMBER: 14SR-LD2-15-C-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.9	476.9	476.9	476.9	476.9
2.5°	488.9	481.9	478.9	488.9	487.9
5°	474.9	484.9	493.9	510.9	511.9
7.5°	471.9	494.9	508.9	529.9	530.9
10°	466.9	496.9	519.9	544.9	547.9
12.5°	459.9	498.9	521.9	552.9	556.9
15°	450.9	498.9	527.9	558.9	560.9
17.5°	447.9	498.9	528.9	555.9	559.9
20°	430.9	493.9	527.9	551.9	555.9
22.5°	423.9	484.9	514.9	543.9	552.9
25°	404.9	472.9	502.9	529.9	532.9
27.5°	388.9	459.9	491.9	514.9	514.9
30°	376.9	443.9	471.9	493.9	492.9
32.5°	354.9	421.9	453.9	470.9	473.9
35°	335.9	403.9	431.9	443.9	442.9
37.5°	315.9	380.9	403.9	417.9	413.9
40°	294.9	357.9	380.9	389.9	384.9
42.5°	277.9	333.9	355.9	361.9	356.9
45°	252.9	312.9	331.9	335.9	328.9
47.5°	235.9	289.9	309.9	309.9	305.9
50°	212.9	267.9	289.9	283.9	281.9
52.5°	195.9	248.9	267.9	262.9	256.9
55°	176.0	228.9	248.9	242.9	235.9
57.5°	164.0	212.9	231.9	224.9	218.9
60°	146.0	196.9	215.9	206.9	199.9
62.5°	132.0	183.0	200.9	189.9	183.0
65°	118.0	169.0	188.0	172.0	165.0
67.5°	107.0	156.0	172.0	155.0	149.0
70°	94.0	141.0	156.0	138.0	132.0
72.5°	83.0	129.0	139.0	121.0	117.0
75°	72.0	116.0	121.0	104.0	100.0
77.5°	61.0	103.0	103.0	88.0	84.0
80°	47.0	88.0	84.0	71.0	68.0
82.5°	36.0	70.0	64.0	53.0	51.0
85°	23.0	49.0	43.0	35.0	34.0
87.5°	11.0	26.0	21.0	17.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)