

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: P183950

Luminaire Tested: **14SR-LD2-20-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183950
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-LD2-20-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

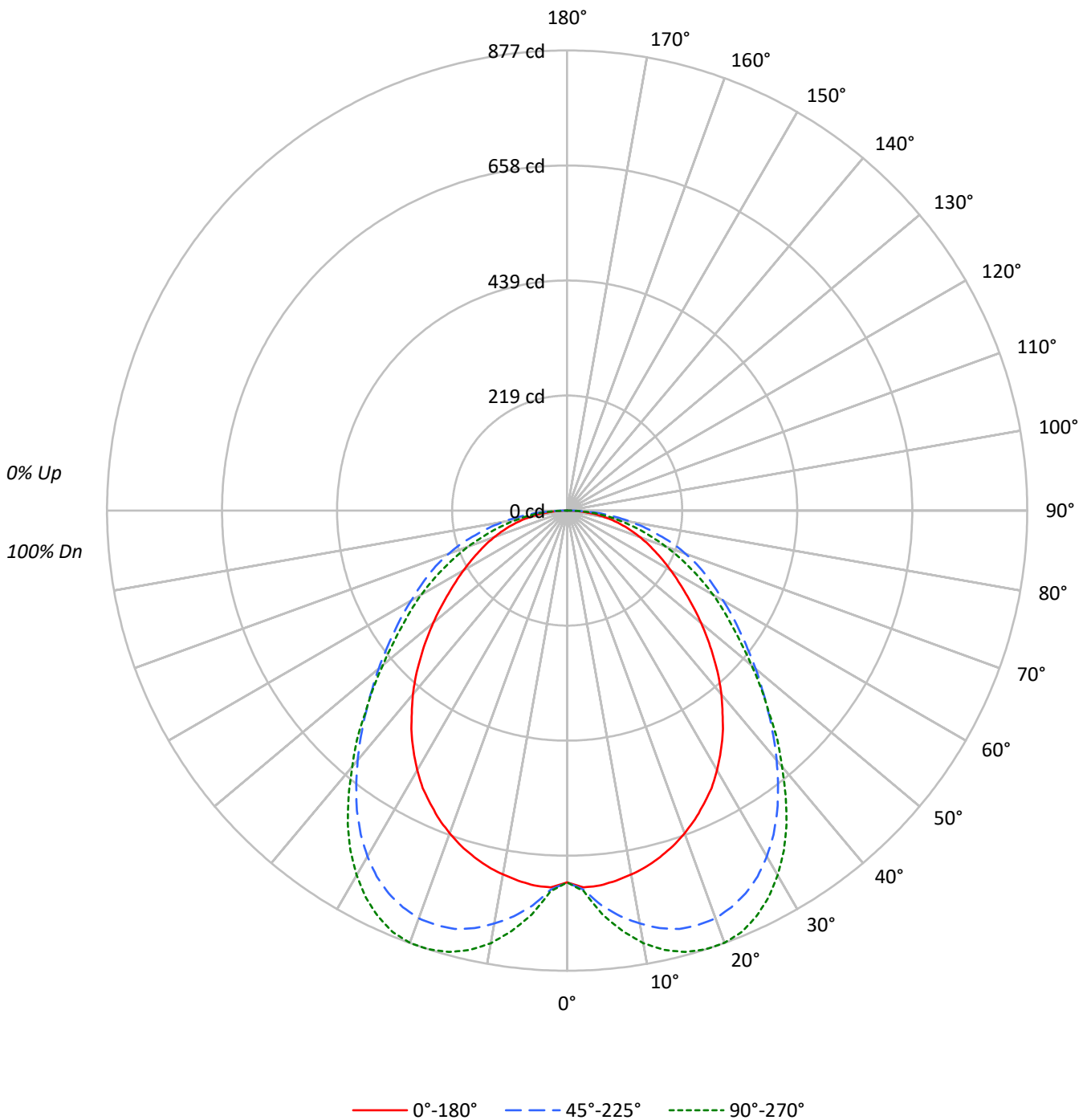
Lumens per Lamp: N/A
Luminaire Lumens: 2289.6 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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



TEST NUMBER: P183950
CATALOG NUMBER: 14SR-LD2-20-S-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183950

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L850-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°	1907	1907	1907
5°	1938	2041	2088
10°	1924	2184	2288
15°	1905	2300	2426
20°	1874	2368	2510
25°	1830	2390	2533
30°	1775	2365	2492
35°	1699	2294	2395
40°	1606	2181	2238
45°	1501	2063	2068
50°	1394	1963	1921
55°	1295	1885	1803
60°	1227	1848	1730
65°	1182	1861	1647
70°	1161	1885	1574
75°	1154	1884	1504
80°	1133	1901	1471
85°	1084	1985	1488



TEST NUMBER: P183950

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.2
10°-20°	226.9	9.9
20°-30°	356.0	15.5
30°-40°	415.1	18.1
40°-50°	394.9	17.2
50°-60°	333.4	14.6
60°-70°	259.8	11.3
70°-80°	169.4	7.4
80°-90°	61.7	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°	655.4	28.6
0°-40°	1070.5	46.8
0°-60°	1798.8	78.6
0°-90°	2289.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2289.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	717	720	755	773	773	68
15°	684	751	826	862	871	193
25°	616	717	805	843	853	284
35°	517	619	698	723	729	323
45°	394	484	542	548	544	305
55°	276	362	402	390	384	248
65°	186	266	292	269	259	185
75°	111	178	181	152	145	117
85°	35	76	64	50	48	39
90°	0	0	0	0	0	



TEST NUMBER: P183950

CATALOG NUMBER: 14SR-LD2-20-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.6	708.6	708.6	708.6	708.6
2.5°	718.8	710.1	723.2	731.9	726.1
5°	717.4	720.3	755.4	772.8	772.8
7.5°	711.5	731.9	780.1	803.5	807.9
10°	704.3	742.1	799.2	829.9	837.2
12.5°	695.4	749.5	815.2	848.8	857.7
15°	683.8	751.0	825.5	862.0	870.8
17.5°	670.6	748.1	828.4	867.9	876.6
20°	654.5	742.1	827.0	866.4	876.6
22.5°	637.0	731.9	818.1	857.7	869.3
25°	616.5	717.4	805.0	843.0	853.2
27.5°	596.1	696.9	786.1	821.1	831.3
30°	571.3	675.0	761.2	794.8	802.1
32.5°	544.9	648.7	731.9	762.6	768.5
35°	517.2	619.4	698.3	723.2	729.0
37.5°	486.5	585.8	660.3	682.3	683.8
40°	457.3	552.2	620.9	638.5	637.0
42.5°	426.6	518.7	581.5	593.2	593.2
45°	394.4	483.6	542.0	547.8	543.5
47.5°	363.7	451.5	504.0	505.5	501.1
50°	333.1	419.3	469.0	464.6	458.8
52.5°	303.9	388.6	433.9	425.1	419.3
55°	276.1	362.4	401.8	390.1	384.2
57.5°	251.3	336.1	372.6	357.9	352.1
60°	227.9	311.2	343.3	327.3	321.4
62.5°	206.0	287.9	317.0	298.1	289.3
65°	185.6	265.9	292.2	268.8	258.6
67.5°	166.5	243.9	267.4	238.1	229.4
70°	147.6	222.1	239.6	209.0	200.1
72.5°	128.5	200.1	213.3	179.7	171.0
75°	111.0	178.3	181.2	151.9	144.7
77.5°	92.0	159.2	153.4	125.6	118.3
80°	73.1	134.5	122.7	99.4	94.9
82.5°	54.0	105.2	93.6	74.5	71.6
85°	35.1	76.0	64.3	49.6	48.2
87.5°	17.5	40.9	32.2	24.9	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)