

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: P183903

Luminaire Tested: **14SR-LD2-20-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183903
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-LD2-20-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: 2069.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

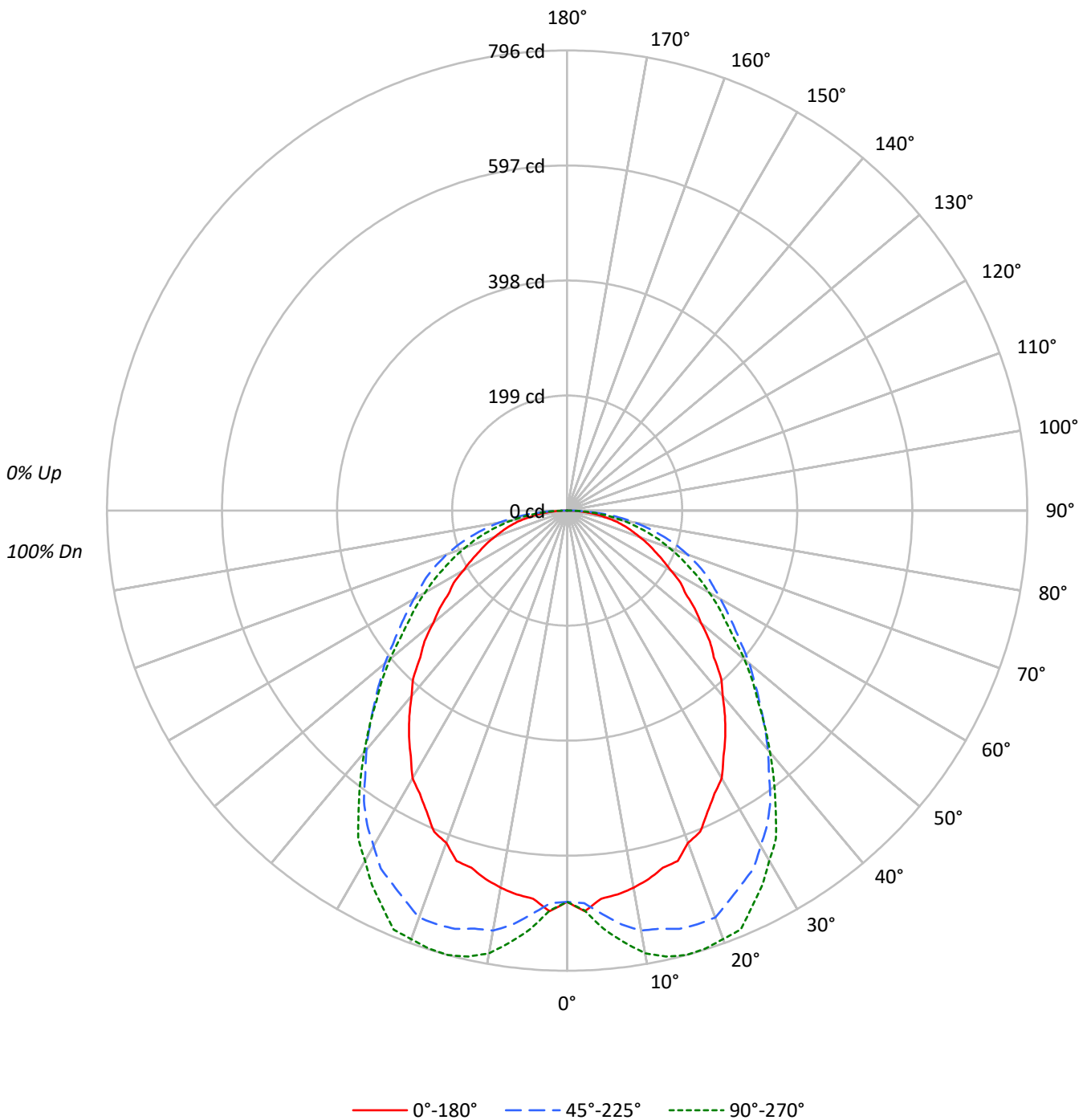
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183903

CATALOG NUMBER: 14SR-LD2-20-C-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183903

CATALOG NUMBER: 14SR-LD2-20-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°	1821	1821	1821
5°	1820	1893	1962
10°	1810	2016	2124
15°	1782	2087	2217
20°	1751	2145	2259
25°	1706	2119	2245
30°	1662	2081	2173
35°	1566	2013	2065
40°	1470	1899	1919
45°	1366	1792	1776
50°	1265	1722	1675
55°	1171	1658	1571
60°	1115	1649	1527
65°	1066	1698	1491
70°	1050	1741	1474
75°	1062	1785	1475
80°	1034	1847	1495
85°	1007	1883	1488



TEST NUMBER: P183903

CATALOG NUMBER: 14SR-LD2-20-C-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.3
10°-20°	209.4	10.1
20°-30°	322.4	15.6
30°-40°	369.1	17.8
40°-50°	348.9	16.9
50°-60°	296.3	14.3
60°-70°	235.6	11.4
70°-80°	159.8	7.7
80°-90°	59.2	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°	600.0	29.0
0°-40°	969.1	46.8
0°-60°	1614.4	78.0
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	674	688	701	725	726	64
15°	640	708	749	793	796	181
25°	575	671	714	752	756	265
35°	477	573	613	630	628	298
45°	359	444	471	477	467	279
55°	250	325	353	345	335	227
65°	167	240	267	244	234	167
75°	102	165	172	148	142	107
85°	33	70	61	50	48	36
90°	0	0	0	0	0	



TEST NUMBER: P183903

CATALOG NUMBER: 14SR-LD2-20-C-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.7	676.7	676.7	676.7	676.7
2.5°	693.7	683.8	679.6	693.7	692.3
5°	673.9	688.1	700.8	725.0	726.4
7.5°	669.6	702.3	722.1	751.9	753.3
10°	662.5	705.1	737.7	773.2	777.4
12.5°	652.6	707.9	740.6	784.5	790.2
15°	639.8	707.9	749.1	793.0	795.9
17.5°	635.6	707.9	750.5	788.8	794.5
20°	611.5	700.8	749.1	783.1	788.8
22.5°	601.5	688.1	730.6	771.8	784.5
25°	574.6	671.0	713.6	751.9	756.2
27.5°	551.9	652.6	698.0	730.6	730.6
30°	534.8	629.9	669.6	700.8	699.4
32.5°	503.6	598.7	644.1	668.2	672.5
35°	476.7	573.2	612.9	629.9	628.5
37.5°	448.3	540.5	573.2	593.0	587.3
40°	418.5	507.9	540.5	553.3	546.2
42.5°	394.4	473.8	505.1	513.6	506.5
45°	358.9	444.1	471.0	476.7	466.7
47.5°	334.8	411.4	439.8	439.8	434.1
50°	302.2	380.2	411.4	402.9	400.1
52.5°	278.1	353.3	380.2	373.1	364.6
55°	249.7	324.9	353.3	344.7	334.8
57.5°	232.7	302.2	329.1	319.2	310.7
60°	207.1	279.5	306.4	293.7	283.7
62.5°	187.3	259.6	285.2	269.6	259.6
65°	167.4	239.8	266.7	244.0	234.1
67.5°	151.8	221.3	244.0	219.9	211.4
70°	133.4	200.0	221.3	195.8	187.3
72.5°	117.8	183.0	197.2	171.7	166.0
75°	102.1	164.6	171.7	147.5	141.9
77.5°	86.5	146.1	146.1	124.8	119.2
80°	66.7	124.8	119.2	100.7	96.5
82.5°	51.1	99.3	90.8	75.2	72.4
85°	32.6	69.5	61.0	49.7	48.2
87.5°	15.6	36.9	29.8	24.1	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)