

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: P183905

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183905
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-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: 2296.6 lumens
Efficiency: N/A
Efficacy: 140.0 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

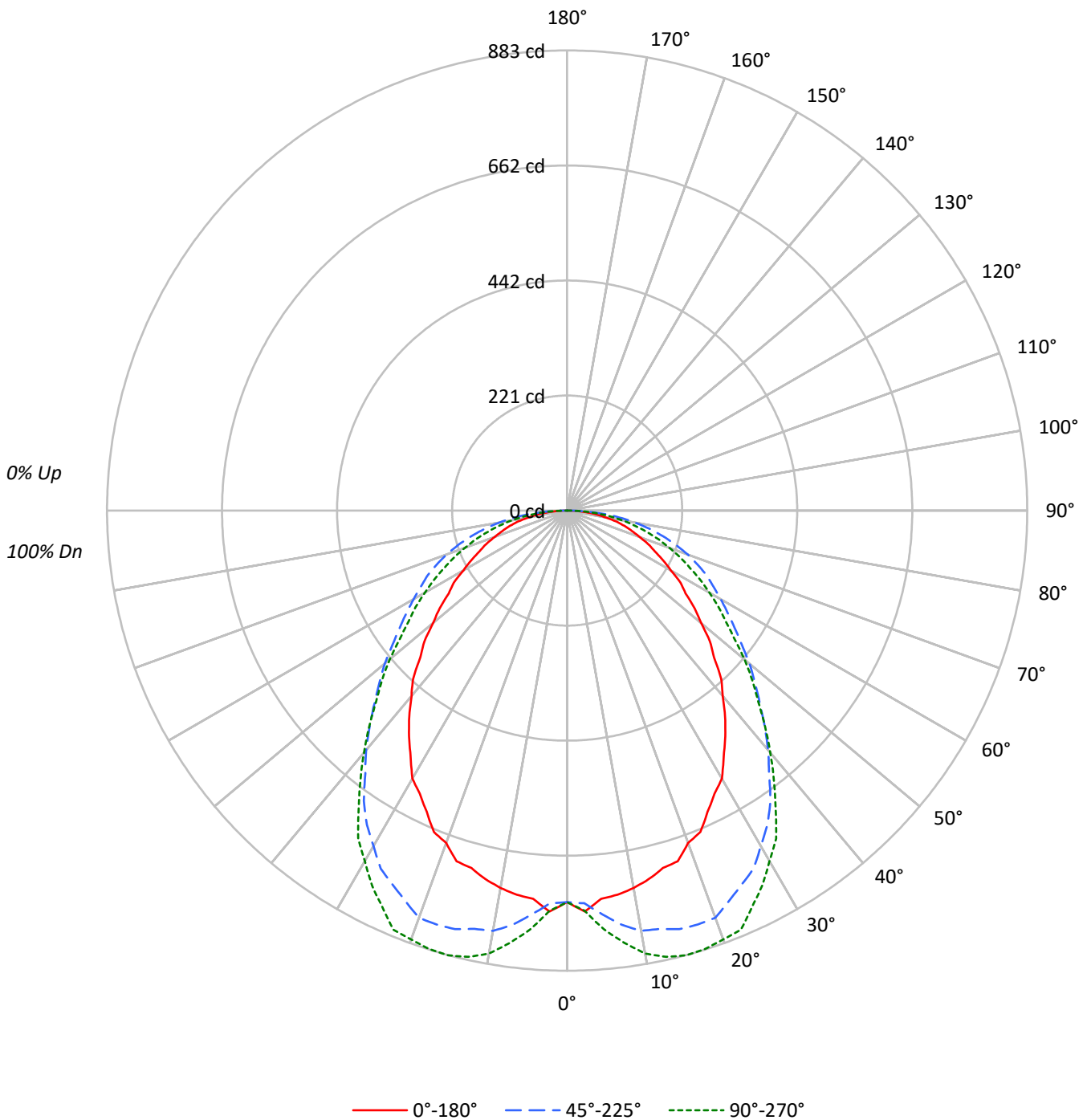
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2021	2021	2021
5°	2021	2101	2178
10°	2009	2238	2358
15°	1979	2316	2461
20°	1944	2381	2507
25°	1894	2352	2492
30°	1845	2310	2412
35°	1738	2235	2292
40°	1632	2108	2130
45°	1516	1990	1972
50°	1404	1912	1859
55°	1301	1840	1743
60°	1237	1830	1695
65°	1183	1885	1654
70°	1164	1933	1636
75°	1179	1981	1638
80°	1147	2050	1660
85°	1118	2090	1652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.3
10°-20°	232.4	10.1
20°-30°	357.9	15.6
30°-40°	409.7	17.8
40°-50°	387.3	16.9
50°-60°	328.9	14.3
60°-70°	261.6	11.4
70°-80°	177.3	7.7
80°-90°	65.8	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°	666.0	29.0
0°-40°	1075.7	46.8
0°-60°	1792.0	78.0
0°-90°	2296.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	748	764	778	805	806	71
15°	710	786	832	880	883	201
25°	638	745	792	835	839	294
35°	529	636	680	699	698	331
45°	398	493	523	529	518	310
55°	277	361	392	383	372	252
65°	186	266	296	271	260	186
75°	113	183	190	164	158	119
85°	36	77	68	55	54	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.2	751.2	751.2	751.2	751.2
2.5°	770.1	759.0	754.3	770.1	768.5
5°	748.0	763.8	777.9	804.7	806.3
7.5°	743.3	779.5	801.5	834.6	836.2
10°	735.4	782.6	818.9	858.2	863.0
12.5°	724.4	785.8	822.0	870.8	877.1
15°	710.2	785.8	831.5	880.3	883.4
17.5°	705.5	785.8	833.0	875.6	881.9
20°	678.7	777.9	831.5	869.3	875.6
22.5°	667.7	763.8	811.0	856.7	870.8
25°	637.8	744.9	792.1	834.6	839.3
27.5°	612.6	724.4	774.8	811.0	811.0
30°	593.7	699.2	743.3	777.9	776.4
32.5°	559.0	664.5	714.9	741.7	746.4
35°	529.1	636.2	680.3	699.2	697.6
37.5°	497.6	600.0	636.2	658.2	651.9
40°	464.6	563.8	600.0	614.2	606.3
42.5°	437.8	526.0	560.6	570.1	562.2
45°	398.4	492.9	522.8	529.1	518.1
47.5°	371.6	456.7	488.2	488.2	481.9
50°	335.4	422.0	456.7	447.2	444.1
52.5°	308.7	392.1	422.0	414.2	404.7
55°	277.2	360.6	392.1	382.7	371.6
57.5°	258.3	335.4	365.3	354.3	344.9
60°	229.9	310.2	340.1	326.0	314.9
62.5°	207.9	288.2	316.5	299.2	288.2
65°	185.8	266.1	296.1	270.9	259.8
67.5°	168.5	245.7	270.9	244.1	234.6
70°	148.0	222.0	245.7	217.3	207.9
72.5°	130.7	203.1	218.9	190.5	184.2
75°	113.4	182.7	190.5	163.8	157.5
77.5°	96.1	162.2	162.2	138.6	132.3
80°	74.0	138.6	132.3	111.8	107.1
82.5°	56.7	110.2	100.8	83.5	80.3
85°	36.2	77.2	67.7	55.1	53.5
87.5°	17.3	40.9	33.1	26.8	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)