

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: P183908

Luminaire Tested: **14SR-LD2-23-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183908
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-LD2-23-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: 2291.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

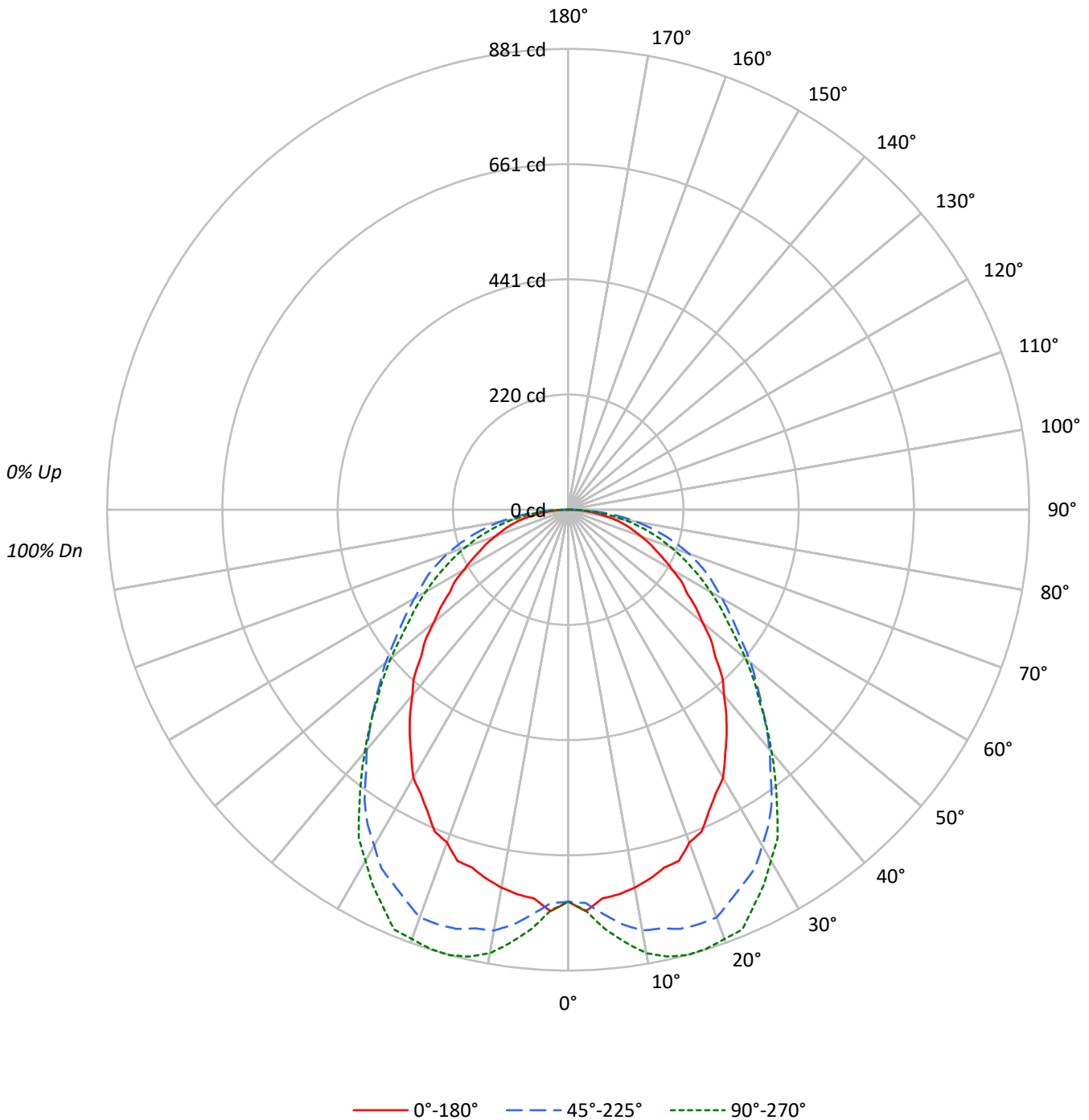
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2016	2016	2016
5°	2016	2096	2173
10°	2005	2232	2352
15°	1974	2311	2455
20°	1939	2375	2501
25°	1889	2346	2486
30°	1840	2304	2407
35°	1734	2229	2286
40°	1628	2102	2125
45°	1512	1985	1967
50°	1401	1907	1855
55°	1297	1835	1739
60°	1235	1826	1691
65°	1181	1880	1650
70°	1162	1928	1632
75°	1176	1976	1633
80°	1144	2046	1655
85°	1115	2084	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.3
10°-20°	231.9	10.1
20°-30°	357.0	15.6
30°-40°	408.7	17.8
40°-50°	386.3	16.9
50°-60°	328.1	14.3
60°-70°	260.9	11.4
70°-80°	176.9	7.7
80°-90°	65.6	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°	664.4	29.0
0°-40°	1073.1	46.8
0°-60°	1787.6	78.0
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	746	762	776	803	804	71
15°	708	784	829	878	881	201
25°	636	743	790	833	837	294
35°	528	635	679	698	696	330
45°	397	492	522	528	517	309
55°	276	360	391	382	371	251
65°	185	266	295	270	259	185
75°	113	182	190	163	157	119
85°	36	77	68	55	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.3	749.3	749.3	749.3	749.3
2.5°	768.2	757.2	752.5	768.2	766.6
5°	746.2	761.9	776.0	802.7	804.3
7.5°	741.5	777.6	799.6	832.6	834.2
10°	733.6	780.7	816.9	856.1	860.9
12.5°	722.6	783.9	820.0	868.7	875.0
15°	708.5	783.9	829.4	878.1	881.3
17.5°	703.8	783.9	831.0	873.4	879.7
20°	677.1	776.0	829.4	867.1	873.4
22.5°	666.1	761.9	809.0	854.6	868.7
25°	636.2	743.0	790.2	832.6	837.3
27.5°	611.1	722.6	772.9	809.0	809.0
30°	592.2	697.5	741.5	776.0	774.5
32.5°	557.7	662.9	713.2	739.9	744.6
35°	527.8	634.6	678.6	697.5	695.9
37.5°	496.4	598.5	634.6	656.6	650.4
40°	463.4	562.4	598.5	612.7	604.8
42.5°	436.7	524.7	559.2	568.7	560.8
45°	397.4	491.7	521.5	527.8	516.8
47.5°	370.7	455.6	487.0	487.0	480.7
50°	334.6	421.0	455.6	446.1	443.0
52.5°	307.9	391.2	421.0	413.2	403.7
55°	276.5	359.7	391.2	381.7	370.7
57.5°	257.6	334.6	364.5	353.5	344.0
60°	229.4	309.5	339.3	325.2	314.2
62.5°	207.4	287.5	315.8	298.5	287.5
65°	185.4	265.5	295.3	270.2	259.2
67.5°	168.1	245.1	270.2	243.5	234.1
70°	147.7	221.5	245.1	216.8	207.4
72.5°	130.4	202.6	218.4	190.1	183.8
75°	113.1	182.2	190.1	163.4	157.1
77.5°	95.8	161.8	161.8	138.2	132.0
80°	73.8	138.2	132.0	111.5	106.8
82.5°	56.6	110.0	100.5	83.3	80.1
85°	36.1	77.0	67.5	55.0	53.4
87.5°	17.3	40.8	33.0	26.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)