

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: P188327

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-C-UNV-L835-CD1-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1181.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

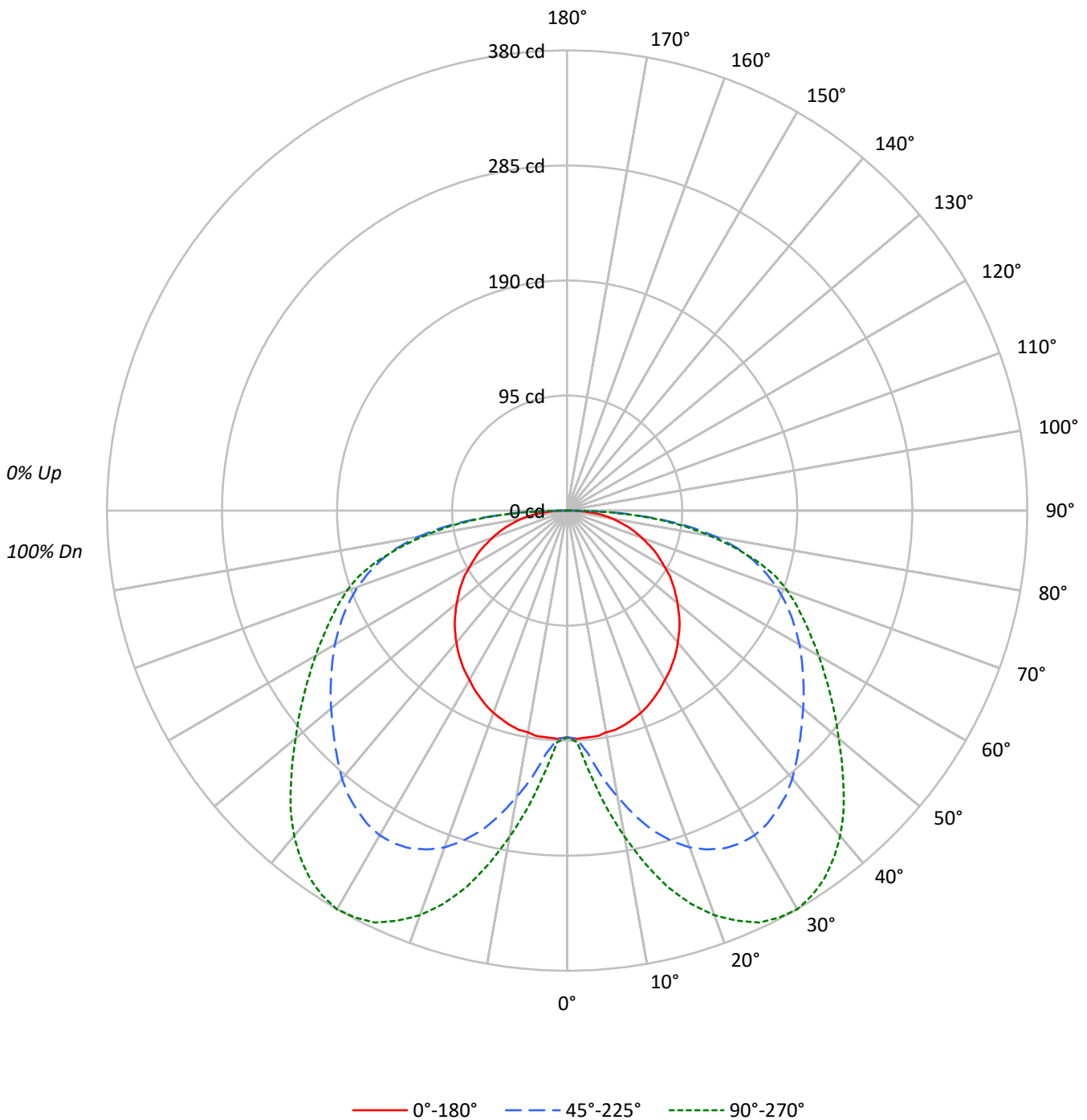
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P188327

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-PG-U

Luminous Intensity Polar Plot





TEST NUMBER: P188327

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-PG-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	106	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	549	549	549
5°	553	593	641
10°	553	714	814
15°	556	830	977
20°	554	923	1109
25°	551	995	1214
30°	546	1048	1286
35°	545	1081	1326
40°	544	1106	1342
45°	544	1125	1337
50°	542	1160	1334
55°	545	1215	1355
60°	545	1298	1406
65°	555	1413	1498
70°	562	1575	1658
75°	589	1803	1842
80°	634	2111	2020
85°	713	2461	2323



TEST NUMBER: P188327

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-PG-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	1.7
10°-20°	74.7	6.3
20°-30°	134.8	11.4
30°-40°	178.6	15.1
40°-50°	196.0	16.6
50°-60°	193.9	16.4
60°-70°	178.0	15.1
70°-80°	142.4	12.1
80°-90°	62.0	5.3
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°	229.9	19.5
0°-40°	408.6	34.6
0°-60°	798.5	67.6
0°-90°	1181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	187	187	187	187	187	
5°	188	189	202	214	218	18
15°	183	219	274	308	322	52
25°	170	234	308	357	375	79
35°	152	226	302	353	371	95
45°	131	204	271	311	323	101
55°	107	178	238	261	265	95
65°	80	150	204	214	216	79
75°	52	114	159	162	163	55
85°	21	52	73	69	69	22
90°	0	0	0	0	0	



TEST NUMBER: P188327

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-PG-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3
2.5°	188.7	188.7	188.0	188.7	188.0	188.7	188.0	188.0	188.7	188.7	189.4
5°	188.0	188.0	188.0	188.0	188.7	190.1	192.1	194.9	198.3	201.7	205.1
7.5°	188.0	188.0	188.0	188.7	192.1	197.6	203.8	209.9	216.7	222.2	227.0
10°	186.0	186.7	186.7	190.8	198.3	207.2	216.7	224.3	232.5	240.0	246.8
12.5°	185.3	186.0	187.3	194.9	205.8	218.1	228.4	238.6	248.9	257.8	266.0
15°	183.2	183.2	188.0	199.0	212.6	225.6	238.6	250.9	262.6	273.5	283.1
17.5°	180.5	180.5	188.0	202.4	217.4	232.5	246.8	260.5	274.2	285.8	296.7
20°	177.8	178.5	188.0	205.1	221.5	238.6	253.7	268.7	283.1	296.1	308.4
22.5°	174.4	175.0	188.0	206.5	224.3	242.0	258.5	274.2	289.2	302.9	315.9
25°	170.3	172.3	186.7	205.8	225.0	243.4	260.5	277.6	294.0	307.7	321.4
27.5°	166.2	168.9	184.6	204.4	224.3	243.4	261.2	279.0	294.7	309.7	323.4
30°	161.4	164.8	182.6	203.1	222.9	242.0	260.5	278.3	294.7	309.7	323.4
32.5°	157.3	161.4	179.8	200.3	220.2	239.3	257.8	275.6	292.0	307.0	320.7
35°	152.5	156.6	175.7	196.2	216.1	235.2	253.7	270.8	287.9	302.2	315.9
37.5°	147.7	152.5	171.6	192.1	212.0	231.1	248.9	266.0	281.7	296.7	309.7
40°	142.2	147.7	166.8	187.3	206.5	225.0	242.7	259.1	274.9	289.2	301.5
42.5°	136.8	142.9	161.4	181.9	201.0	219.5	236.6	252.3	267.3	280.3	292.0
45°	131.3	138.1	156.6	175.7	194.9	212.6	229.1	244.8	258.5	271.4	282.4
47.5°	125.1	132.6	151.1	170.3	188.7	205.8	222.2	237.3	250.9	262.6	272.8
50°	119.0	127.2	145.6	164.1	181.9	199.7	215.4	229.7	242.7	254.4	263.9
52.5°	112.8	121.7	139.5	157.9	175.7	192.8	208.5	222.2	235.2	246.2	254.4
55°	106.7	115.6	134.0	151.8	169.6	186.0	201.7	215.4	227.7	237.9	245.5
57.5°	100.5	110.1	127.9	145.0	162.7	179.8	194.9	208.5	220.2	229.7	237.3
60°	93.0	103.9	121.0	138.8	155.9	173.0	188.0	201.0	212.6	221.5	228.4
62.5°	86.2	97.8	114.9	132.0	149.1	165.5	180.5	193.5	204.4	212.6	218.8
65°	80.0	90.9	108.0	124.4	141.5	158.6	173.0	186.0	196.2	203.8	209.2
67.5°	72.5	84.1	100.5	116.9	134.0	150.4	164.8	177.1	187.3	194.2	199.0
70°	65.6	77.3	93.0	109.4	125.8	141.5	155.9	168.2	177.1	183.9	187.3
72.5°	58.8	70.4	85.5	101.2	116.9	132.6	146.3	157.3	166.2	172.3	175.0
75°	52.0	62.9	77.3	92.3	106.7	121.7	135.4	146.3	153.8	159.3	161.4
77.5°	44.4	55.4	68.4	82.1	95.7	110.1	122.4	132.6	140.2	144.3	146.3
80°	37.6	46.5	58.1	71.1	83.4	96.4	107.3	116.2	122.4	125.1	124.4
82.5°	30.1	36.9	46.5	57.4	67.7	78.6	88.2	95.7	99.8	101.2	101.2
85°	21.2	25.3	32.1	39.7	47.9	56.1	63.6	69.1	72.5	73.2	73.2
87.5°	10.9	12.3	15.0	19.1	23.2	28.0	33.5	36.9	38.3	39.0	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188327

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-PG-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3
2.5°	189.4	190.1	190.8	190.8	190.8	191.5	191.5	191.5
5°	207.9	211.3	213.3	214.7	216.1	217.4	218.8	218.1
7.5°	231.1	235.2	238.6	241.4	243.4	245.5	246.8	246.8
10°	252.3	257.8	262.6	266.7	270.1	271.4	273.5	273.5
12.5°	273.5	279.7	285.1	290.6	294.0	296.7	298.8	298.8
15°	291.3	298.8	305.0	311.1	315.9	319.3	320.7	322.0
17.5°	306.3	314.5	322.0	328.9	333.7	337.1	339.1	340.5
20°	317.9	327.5	335.7	342.6	348.7	352.1	354.2	355.6
22.5°	326.8	337.1	346.0	353.5	359.0	363.1	365.8	366.5
25°	333.0	343.9	353.5	361.0	367.2	371.3	374.0	375.4
27.5°	335.7	346.7	356.9	365.1	371.3	376.1	378.1	378.8
30°	336.4	347.3	357.6	365.8	372.6	376.7	378.8	380.2
32.5°	333.7	344.6	354.9	363.1	369.2	373.3	376.1	376.7
35°	328.2	339.1	348.7	356.9	363.1	367.2	369.9	370.6
37.5°	321.4	331.6	341.2	348.7	354.9	359.0	361.0	361.7
40°	312.5	322.7	330.9	338.5	343.9	347.3	350.1	350.8
42.5°	302.9	312.5	320.7	326.8	331.6	335.7	337.1	337.8
45°	292.0	300.9	308.4	313.8	317.9	321.4	322.7	322.7
47.5°	281.7	289.9	296.1	300.9	303.6	306.3	307.0	307.7
50°	271.4	278.3	283.8	287.2	289.9	292.0	292.6	292.6
52.5°	261.9	267.3	271.4	274.9	276.2	278.3	279.0	279.0
55°	252.3	256.4	259.8	261.9	263.2	264.6	264.6	265.3
57.5°	242.7	246.2	248.2	249.6	250.9	251.6	252.3	252.3
60°	232.5	235.2	236.6	237.3	237.9	239.3	239.3	240.0
62.5°	222.2	224.3	225.0	225.6	226.3	227.0	227.7	227.7
65°	211.3	212.6	213.3	214.0	214.7	215.4	216.7	216.1
67.5°	200.3	201.0	201.7	202.4	203.1	204.4	205.1	205.1
70°	188.7	188.7	189.4	190.1	190.8	192.1	192.8	193.5
72.5°	176.4	175.7	176.4	177.1	178.5	179.8	180.5	180.5
75°	162.0	162.0	162.0	162.0	162.0	162.7	162.7	162.7
77.5°	145.6	142.2	141.5	140.9	140.9	140.9	140.9	141.5
80°	123.1	120.3	119.7	119.0	119.7	119.7	119.7	119.7
82.5°	99.8	97.1	96.4	95.7	95.7	95.7	95.7	96.4
85°	71.8	70.4	69.7	68.4	69.1	69.1	69.7	69.1
87.5°	39.0	36.9	36.9	36.2	37.6	36.9	36.9	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)