

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: P183879

Luminaire Tested: **22SR-LD2-20-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-S-UNV-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2084.1 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

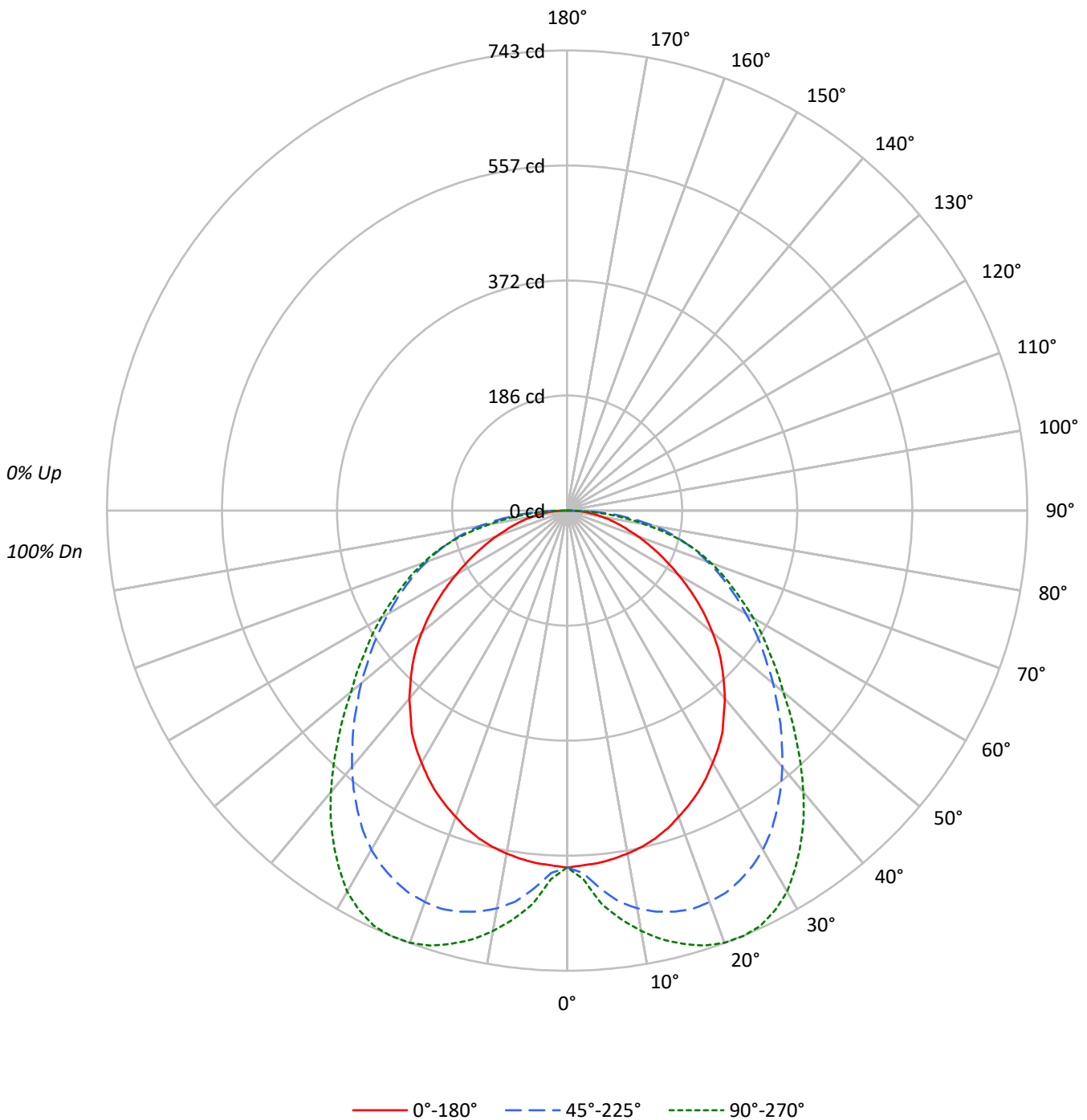
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183879

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P183879

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L840-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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1551	1551	1551
5°	1543	1654	1722
10°	1536	1782	1884
15°	1528	1867	2018
20°	1507	1925	2126
25°	1488	1958	2195
30°	1461	1965	2207
35°	1436	1939	2159
40°	1392	1898	2084
45°	1344	1854	1991
50°	1281	1818	1906
55°	1206	1798	1868
60°	1115	1793	1869
65°	1032	1828	1879
70°	961	1897	1944
75°	905	2028	2018
80°	868	2202	1970
85°	957	2408	1945



TEST NUMBER: P183879

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	2.8
10°-20°	185.8	8.9
20°-30°	296.4	14.2
30°-40°	356.8	17.1
40°-50°	357.9	17.2
50°-60°	319.9	15.4
60°-70°	259.2	12.4
70°-80°	180.5	8.7
80°-90°	68.6	3.3
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°	541.2	26.0
0°-40°	898.1	43.1
0°-60°	1575.9	75.6
0°-90°	2084.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	571	584	612	632	637	54
15°	548	612	670	710	724	154
25°	501	580	659	718	739	231
35°	437	506	590	642	657	272
45°	353	413	487	516	523	272
55°	257	322	383	395	398	230
65°	162	237	287	291	295	161
75°	87	160	195	194	194	93
85°	31	69	78	67	63	32
90°	0	0	0	0	0	



TEST NUMBER: P183879

CATALOG NUMBER: 22SR-LD2-20-S-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.3	576.3	576.3	576.3	576.3
2.5°	573.3	576.3	585.3	593.3	595.3
5°	571.3	584.3	612.3	632.3	637.3
7.5°	567.3	594.3	636.3	657.3	665.3
10°	562.3	605.3	652.3	679.3	689.3
12.5°	556.3	612.3	663.3	697.3	709.3
15°	548.3	612.3	670.3	710.3	724.3
17.5°	538.3	609.3	674.3	719.3	736.4
20°	526.3	603.3	672.3	724.3	742.4
22.5°	514.2	593.3	668.3	724.3	743.4
25°	501.2	580.3	659.3	718.3	739.4
27.5°	486.2	565.3	647.3	707.3	727.3
30°	470.2	547.3	632.3	691.3	710.3
32.5°	454.2	527.3	613.3	669.3	685.3
35°	437.2	506.2	590.3	642.3	657.3
37.5°	415.2	482.2	566.3	613.3	627.3
40°	396.2	460.2	540.3	582.3	593.3
42.5°	374.2	436.2	513.2	549.3	558.3
45°	353.2	413.2	487.2	516.2	523.2
47.5°	331.2	389.2	459.2	483.2	489.2
50°	306.1	366.2	434.2	454.2	455.2
52.5°	282.1	344.2	407.2	423.2	427.2
55°	257.1	322.2	383.2	395.2	398.2
57.5°	232.1	301.1	358.2	368.2	373.2
60°	207.1	279.1	333.2	342.2	347.2
62.5°	184.1	258.1	310.1	316.2	320.2
65°	162.1	237.1	287.1	291.1	295.1
67.5°	141.1	218.1	265.1	267.1	272.1
70°	122.1	199.1	241.1	243.1	247.1
72.5°	103.0	179.1	219.1	218.1	222.1
75°	87.0	160.1	195.1	194.1	194.1
77.5°	72.0	140.1	170.1	164.1	161.1
80°	56.0	119.1	142.1	130.1	127.1
82.5°	44.0	95.0	110.1	98.0	95.0
85°	31.0	69.0	78.0	67.0	63.0
87.5°	16.0	37.0	40.0	34.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)