

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: P183887

Luminaire Tested: **22SR-LD2-29-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183887
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-LD2-29-S-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.3 lumens
Efficiency: N/A
Efficacy: 124.4 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

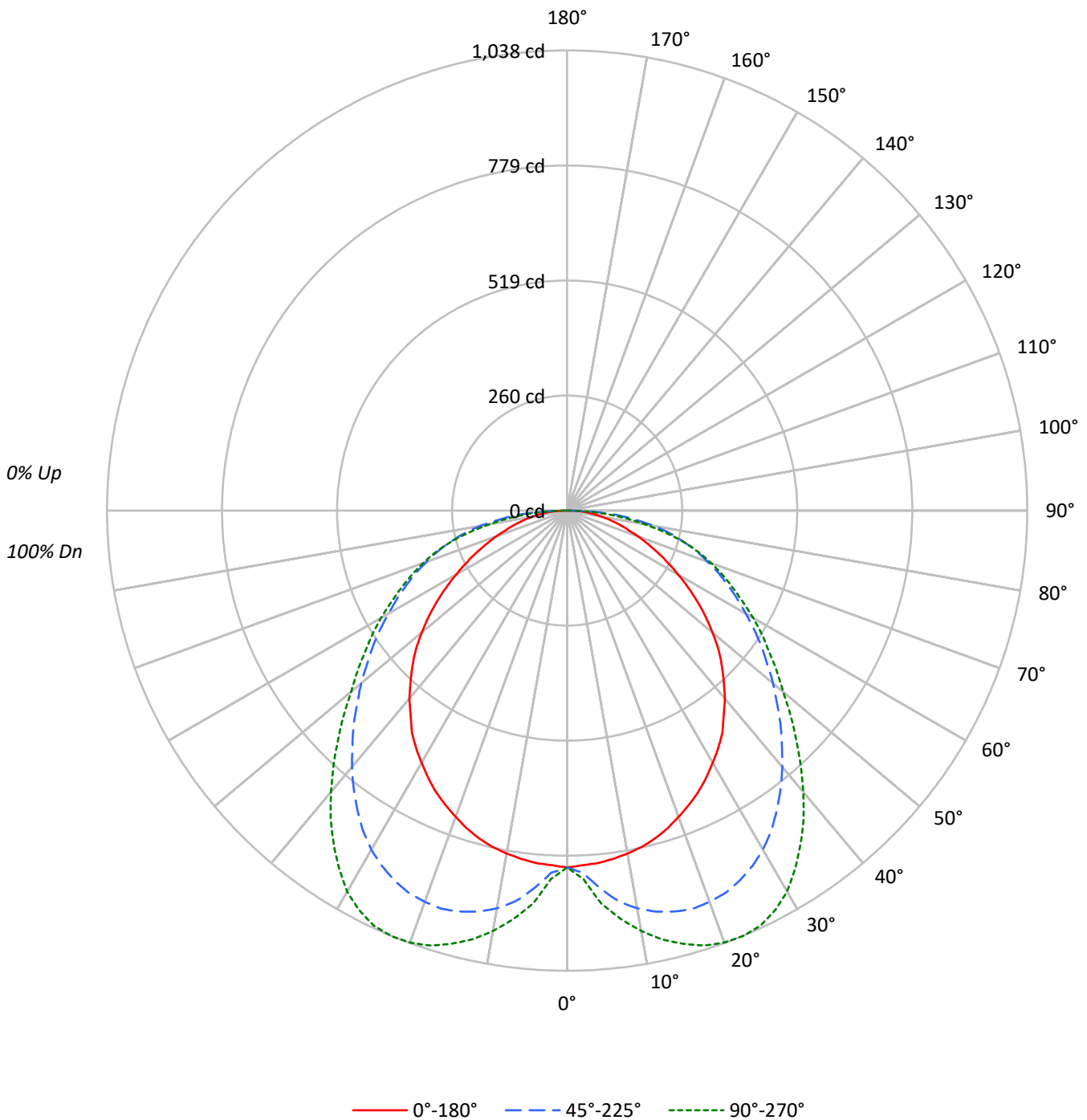
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2166	2166	2166
5°	2156	2310	2405
10°	2146	2490	2631
15°	2133	2608	2819
20°	2105	2689	2970
25°	2079	2735	3067
30°	2041	2744	3083
35°	2006	2709	3016
40°	1944	2651	2911
45°	1877	2590	2782
50°	1790	2539	2662
55°	1685	2511	2609
60°	1557	2505	2610
65°	1442	2554	2625
70°	1341	2650	2716
75°	1264	2833	2819
80°	1213	3075	2751
85°	1337	3365	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	2.8
10°-20°	259.6	8.9
20°-30°	414.1	14.2
30°-40°	498.4	17.1
40°-50°	499.9	17.2
50°-60°	446.9	15.4
60°-70°	362.1	12.4
70°-80°	252.1	8.7
80°-90°	95.9	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°	756.0	26.0
0°-40°	1254.5	43.1
0°-60°	2201.3	75.6
0°-90°	2911.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	798	816	855	883	890	76
15°	766	855	936	992	1012	216
25°	700	811	921	1003	1033	322
35°	611	707	824	897	918	380
45°	493	577	681	721	731	380
55°	359	450	535	552	556	321
65°	226	331	401	407	412	225
75°	122	224	272	271	271	129
85°	43	96	109	94	88	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.0	805.0	805.0	805.0	805.0
2.5°	800.8	805.0	817.6	828.7	831.5
5°	798.0	816.2	855.3	883.2	890.2
7.5°	792.4	830.1	888.8	918.2	929.4
10°	785.4	845.5	911.2	948.9	962.9
12.5°	777.0	855.3	926.6	974.1	990.8
15°	765.8	855.3	936.3	992.2	1011.8
17.5°	751.9	851.1	941.9	1004.8	1028.6
20°	735.1	842.7	939.1	1011.8	1037.0
22.5°	718.3	828.7	933.5	1011.8	1038.4
25°	700.2	810.6	921.0	1003.4	1032.8
27.5°	679.2	789.6	904.2	988.0	1016.0
30°	656.8	764.4	883.2	965.7	992.2
32.5°	634.5	736.5	856.7	934.9	957.3
35°	610.7	707.1	824.5	897.2	918.2
37.5°	580.0	673.6	791.0	856.7	876.2
40°	553.4	642.9	754.7	813.4	828.7
42.5°	522.7	609.3	716.9	767.2	779.8
45°	493.3	577.2	680.6	721.1	730.9
47.5°	462.6	543.6	641.5	675.0	683.4
50°	427.6	511.5	606.5	634.5	635.9
52.5°	394.1	480.7	568.8	591.2	596.7
55°	359.2	450.0	535.3	552.0	556.2
57.5°	324.2	420.7	500.3	514.3	521.3
60°	289.3	389.9	465.4	478.0	484.9
62.5°	257.1	360.6	433.2	441.6	447.2
65°	226.4	331.2	401.1	406.7	412.3
67.5°	197.1	304.7	370.3	373.1	380.1
70°	170.5	278.1	336.8	339.6	345.2
72.5°	143.9	250.2	306.1	304.7	310.2
75°	121.6	223.6	272.5	271.1	271.1
77.5°	100.6	195.7	237.6	229.2	225.0
80°	78.3	166.3	198.4	181.7	177.5
82.5°	61.5	132.8	153.7	137.0	132.8
85°	43.3	96.4	109.0	93.6	88.0
87.5°	22.4	51.7	55.9	47.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)