

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: P184022

Luminaire Tested: **12SR-LD2-20-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166788)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SR-LD2-20-S-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

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

Summary

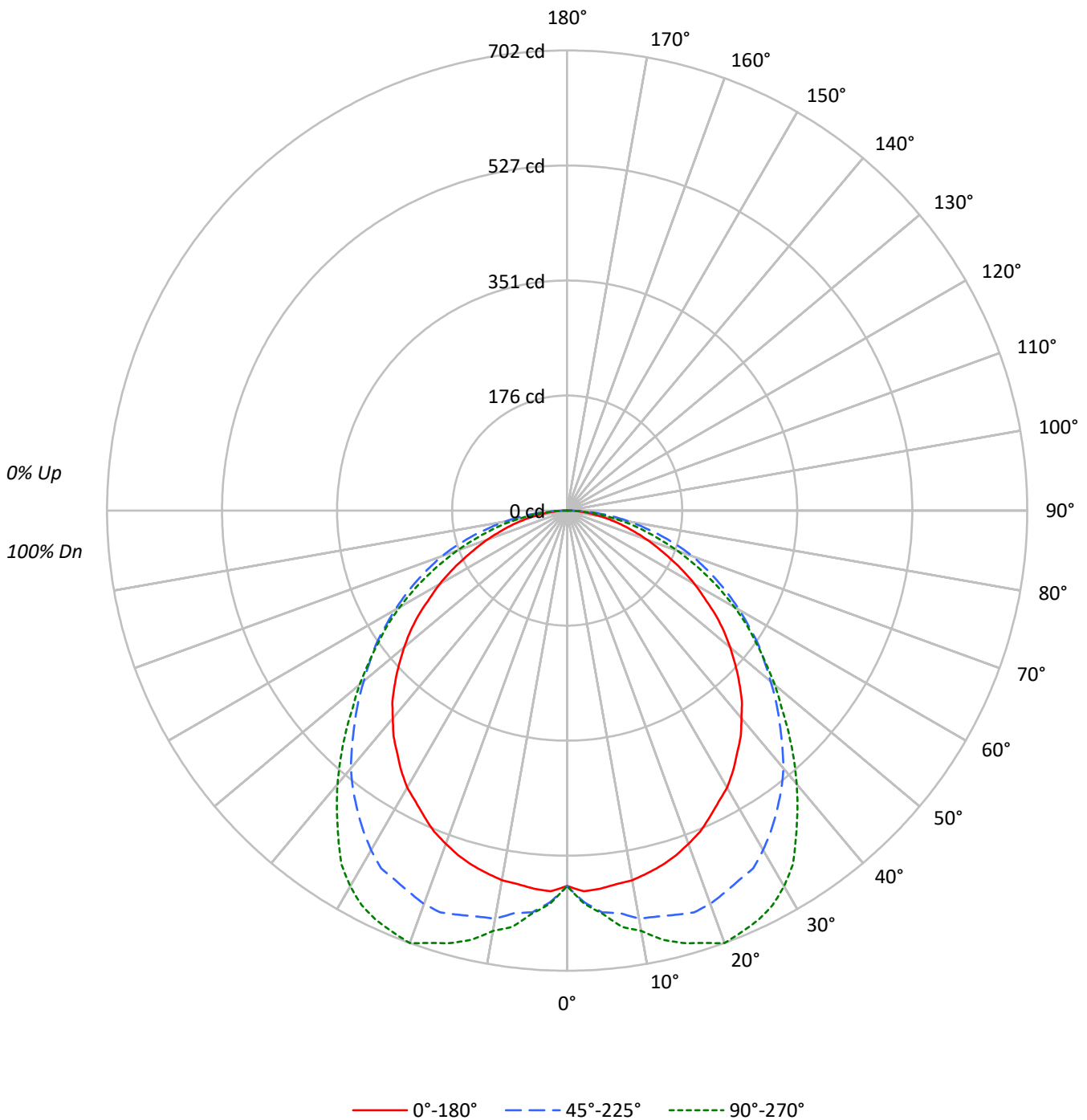
Lumens per Lamp: N/A
Luminaire Lumens: 1908.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.3
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



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3082	3082	3082
5°	3129	3324	3335
10°	3130	3454	3559
15°	3120	3558	3806
20°	3099	3657	4022
25°	3061	3691	4094
30°	3031	3717	4113
35°	2969	3665	4000
40°	2906	3607	3830
45°	2826	3487	3633
50°	2717	3392	3463
55°	2588	3344	3304
60°	2421	3265	3173
65°	2216	3214	2999
70°	2036	3205	2804
75°	1853	3088	2603
80°	1643	2960	2433
85°	1568	2878	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.1
10°-20°	178.4	9.4
20°-30°	282.0	14.8
30°-40°	339.1	17.8
40°-50°	339.3	17.8
50°-60°	298.4	15.6
60°-70°	228.1	12.0
70°-80°	139.6	7.3
80°-90°	45.0	2.4
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°	518.7	27.2
0°-40°	857.7	45.0
0°-60°	1495.4	78.4
0°-90°	1908.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	579	592	615	617	617	55
15°	560	592	638	670	683	158
25°	515	552	622	670	689	238
35°	452	486	558	598	609	283
45°	371	397	458	475	477	286
55°	276	312	356	354	352	246
65°	174	223	252	240	236	173
75°	89	142	148	132	125	95
85°	25	51	47	36	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.7	572.7	572.7	572.7	572.7
2.5°	581.2	579.1	598.1	600.4	600.4
5°	579.1	591.9	615.2	617.3	617.3
7.5°	574.8	600.4	619.4	634.2	640.6
10°	572.7	602.4	632.1	642.8	651.3
12.5°	566.4	598.1	634.2	657.7	670.3
15°	560.0	591.9	638.5	670.3	683.1
17.5°	551.5	587.6	642.8	676.7	691.5
20°	541.0	581.2	638.5	681.0	702.2
22.5°	530.3	566.4	630.0	678.8	695.8
25°	515.4	551.5	621.6	670.3	689.4
27.5°	500.6	536.7	615.2	661.8	678.8
30°	487.8	521.8	598.1	642.8	661.8
32.5°	470.9	504.9	579.1	623.7	640.6
35°	451.9	485.8	557.9	598.1	608.8
37.5°	434.8	464.5	536.7	568.5	577.0
40°	413.6	441.2	513.4	536.7	545.1
42.5°	394.6	422.1	485.8	511.3	511.3
45°	371.3	396.7	458.1	475.2	477.3
47.5°	347.8	377.5	432.7	443.3	443.3
50°	324.5	356.4	405.1	413.6	413.6
52.5°	301.2	333.0	379.7	383.9	381.8
55°	275.8	311.8	356.4	354.2	352.1
57.5°	248.2	288.5	328.8	324.5	324.5
60°	224.9	267.2	303.3	296.9	294.8
62.5°	199.4	243.9	277.9	269.4	265.1
65°	174.0	222.7	252.4	239.7	235.5
67.5°	150.7	203.7	227.0	210.1	205.8
70°	129.4	182.4	203.7	182.4	178.2
72.5°	108.2	161.2	176.1	156.9	150.7
75°	89.1	142.1	148.5	131.5	125.2
77.5°	70.1	120.9	120.9	103.9	101.8
80°	53.0	99.8	95.5	80.6	78.5
82.5°	38.2	74.2	72.1	59.4	55.2
85°	25.4	50.9	46.6	36.1	34.0
87.5°	12.8	25.4	21.2	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)