

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: P184024

Luminaire Tested: **12SR-LD2-20-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184024
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.5 lumens
Efficiency: N/A
Efficacy: 123.1 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

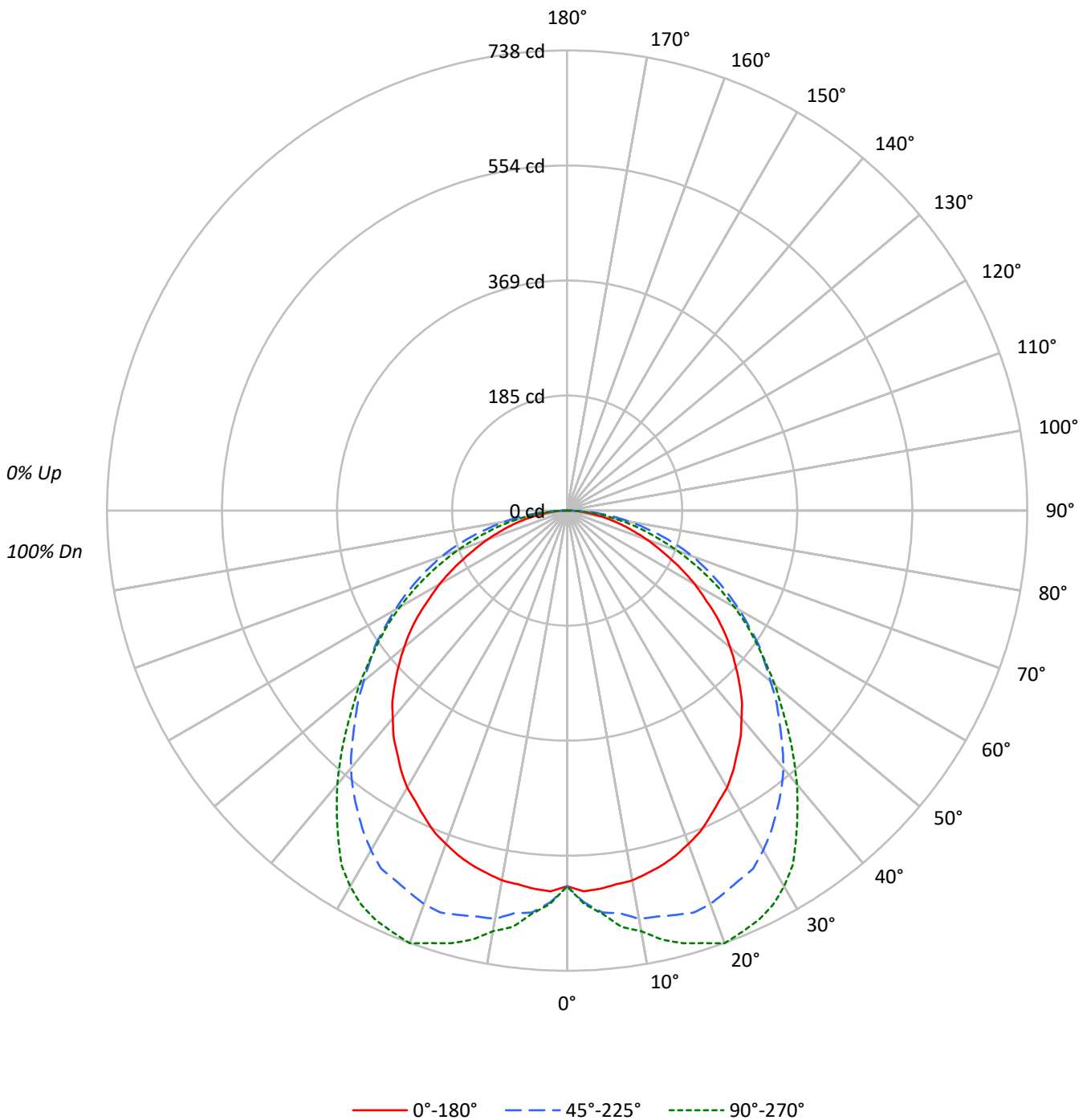
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P184024

CATALOG NUMBER: 12SR-LD2-20-S-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184024

CATALOG NUMBER: 12SR-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	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°	3242	3242	3242
5°	3290	3495	3507
10°	3292	3633	3742
15°	3281	3741	4002
20°	3258	3845	4229
25°	3219	3881	4305
30°	3188	3909	4325
35°	3122	3855	4206
40°	3055	3792	4027
45°	2971	3667	3820
50°	2858	3567	3641
55°	2721	3517	3475
60°	2546	3433	3337
65°	2330	3380	3153
70°	2142	3371	2947
75°	1948	3246	2737
80°	1726	3112	2560
85°	1649	3026	2205



TEST NUMBER: P184024

CATALOG NUMBER: 12SR-LD2-20-S-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.1
10°-20°	187.6	9.4
20°-30°	296.5	14.8
30°-40°	356.6	17.8
40°-50°	356.8	17.8
50°-60°	313.8	15.6
60°-70°	239.8	12.0
70°-80°	146.8	7.3
80°-90°	47.3	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°	545.4	27.2
0°-40°	902.0	45.0
0°-60°	1572.5	78.4
0°-90°	2006.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	609	622	647	649	649	58
15°	589	622	671	705	718	166
25°	542	580	654	705	725	250
35°	475	511	587	629	640	298
45°	390	417	482	500	502	301
55°	290	328	375	372	370	258
65°	183	234	265	252	248	182
75°	94	149	156	138	132	99
85°	27	54	49	38	36	29
90°	0	0	0	0	0	



TEST NUMBER: P184024

CATALOG NUMBER: 12SR-LD2-20-S-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.3	602.3	602.3	602.3	602.3
2.5°	611.2	609.0	629.0	631.3	631.3
5°	609.0	622.4	646.9	649.1	649.1
7.5°	604.5	631.3	651.3	666.9	673.6
10°	602.3	633.5	664.7	675.9	684.8
12.5°	595.6	629.0	666.9	691.6	704.8
15°	588.9	622.4	671.4	704.8	718.3
17.5°	579.9	617.9	675.9	711.6	727.2
20°	568.9	611.2	671.4	716.1	738.4
22.5°	557.6	595.6	662.5	713.7	731.7
25°	542.0	579.9	653.6	704.8	725.0
27.5°	526.4	564.3	646.9	695.9	713.7
30°	513.0	548.7	629.0	675.9	695.9
32.5°	495.2	530.9	609.0	655.8	673.6
35°	475.2	510.8	586.7	629.0	640.2
37.5°	457.2	488.5	564.3	597.8	606.8
40°	434.9	464.0	539.8	564.3	573.2
42.5°	414.9	443.8	510.8	537.6	537.6
45°	390.4	417.1	481.8	499.7	501.9
47.5°	365.8	397.0	455.1	466.2	466.2
50°	341.3	374.8	426.0	434.9	434.9
52.5°	316.7	350.2	399.3	403.7	401.5
55°	290.0	327.8	374.8	372.5	370.3
57.5°	261.0	303.3	345.8	341.3	341.3
60°	236.5	281.0	318.9	312.2	310.0
62.5°	209.7	256.5	292.2	283.3	278.8
65°	183.0	234.2	265.4	252.1	247.6
67.5°	158.4	214.2	238.7	220.9	216.4
70°	136.1	191.9	214.2	191.9	187.3
72.5°	113.8	169.5	185.1	165.0	158.4
75°	93.7	149.4	156.1	138.3	131.6
77.5°	73.7	127.1	127.1	109.3	107.1
80°	55.7	104.9	100.4	84.8	82.6
82.5°	40.1	78.1	75.9	62.4	58.1
85°	26.7	53.5	49.0	37.9	35.7
87.5°	13.4	26.7	22.3	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)