

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: P183947

Luminaire Tested: **14SR-LD2-20-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166748)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-20-S-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 1X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.5 / 1.46
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

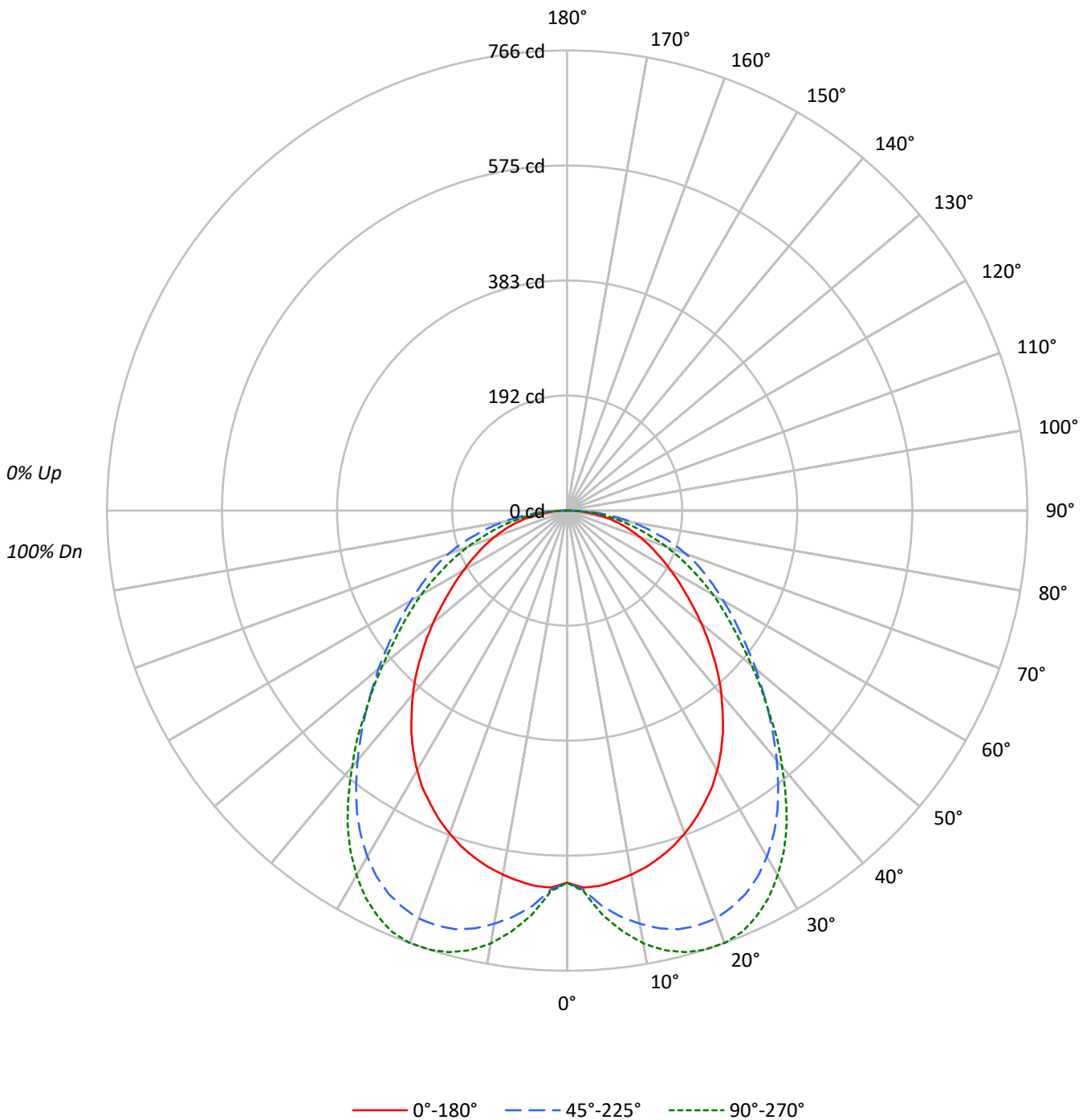
Input Watts (W): 16.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		89	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1666	1666	1666
5°	1693	1783	1824
10°	1682	1908	1999
15°	1665	2010	2120
20°	1638	2070	2194
25°	1600	2089	2214
30°	1551	2067	2178
35°	1485	2005	2093
40°	1404	1906	1955
45°	1312	1803	1808
50°	1219	1716	1678
55°	1132	1647	1575
60°	1072	1615	1512
65°	1033	1626	1439
70°	1015	1648	1376
75°	1009	1646	1314
80°	990	1661	1286
85°	948	1735	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.2
10°-20°	198.3	9.9
20°-30°	311.1	15.5
30°-40°	362.7	18.1
40°-50°	345.1	17.2
50°-60°	291.4	14.6
60°-70°	227.0	11.3
70°-80°	148.0	7.4
80°-90°	53.9	2.7
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°	572.7	28.6
0°-40°	935.4	46.8
0°-60°	1571.9	78.6
0°-90°	2000.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	627	629	660	675	675	59
15°	598	656	721	753	761	168
25°	539	627	704	737	746	248
35°	452	541	610	632	637	282
45°	345	423	474	479	475	266
55°	241	317	351	341	336	217
65°	162	232	255	235	226	161
75°	97	156	158	133	126	102
85°	31	66	56	43	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.2	619.2	619.2	619.2	619.2
2.5°	628.1	620.5	632.0	639.6	634.5
5°	626.9	629.4	660.1	675.3	675.3
7.5°	621.7	639.6	681.7	702.2	706.0
10°	615.4	648.5	698.4	725.2	731.6
12.5°	607.7	654.9	712.4	741.8	749.5
15°	597.6	656.3	721.4	753.2	761.0
17.5°	586.0	653.7	723.9	758.4	766.0
20°	572.0	648.5	722.7	757.1	766.0
22.5°	556.6	639.6	715.0	749.5	759.6
25°	538.8	626.9	703.5	736.7	745.6
27.5°	520.9	609.0	686.9	717.5	726.4
30°	499.3	589.8	665.2	694.5	700.9
32.5°	476.2	566.9	639.6	666.4	671.6
35°	451.9	541.3	610.3	632.0	637.1
37.5°	425.1	511.9	577.0	596.2	597.6
40°	399.6	482.6	542.6	557.9	556.6
42.5°	372.8	453.2	508.2	518.3	518.3
45°	344.7	422.6	473.7	478.7	475.0
47.5°	317.9	394.5	440.4	441.8	437.9
50°	291.1	366.4	409.9	406.0	400.9
52.5°	265.6	339.6	379.2	371.5	366.4
55°	241.3	316.7	351.1	340.9	335.7
57.5°	219.6	293.7	325.6	312.8	307.7
60°	199.2	272.0	300.0	286.0	280.9
62.5°	180.1	251.6	277.0	260.5	252.8
65°	162.2	232.4	255.3	234.9	226.0
67.5°	145.5	213.2	233.7	208.1	200.5
70°	129.0	194.1	209.4	182.6	174.9
72.5°	112.3	174.9	186.4	157.0	149.4
75°	97.0	155.8	158.3	132.7	126.4
77.5°	80.4	139.1	134.1	109.8	103.4
80°	63.9	117.5	107.2	86.8	83.0
82.5°	47.2	91.9	81.8	65.1	62.6
85°	30.7	66.4	56.2	43.4	42.1
87.5°	15.3	35.7	28.1	21.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)