

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: P183917

Luminaire Tested: **14SR-LD2-30-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34451)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14SR-LD2-30-C-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: 2953.6 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.42 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

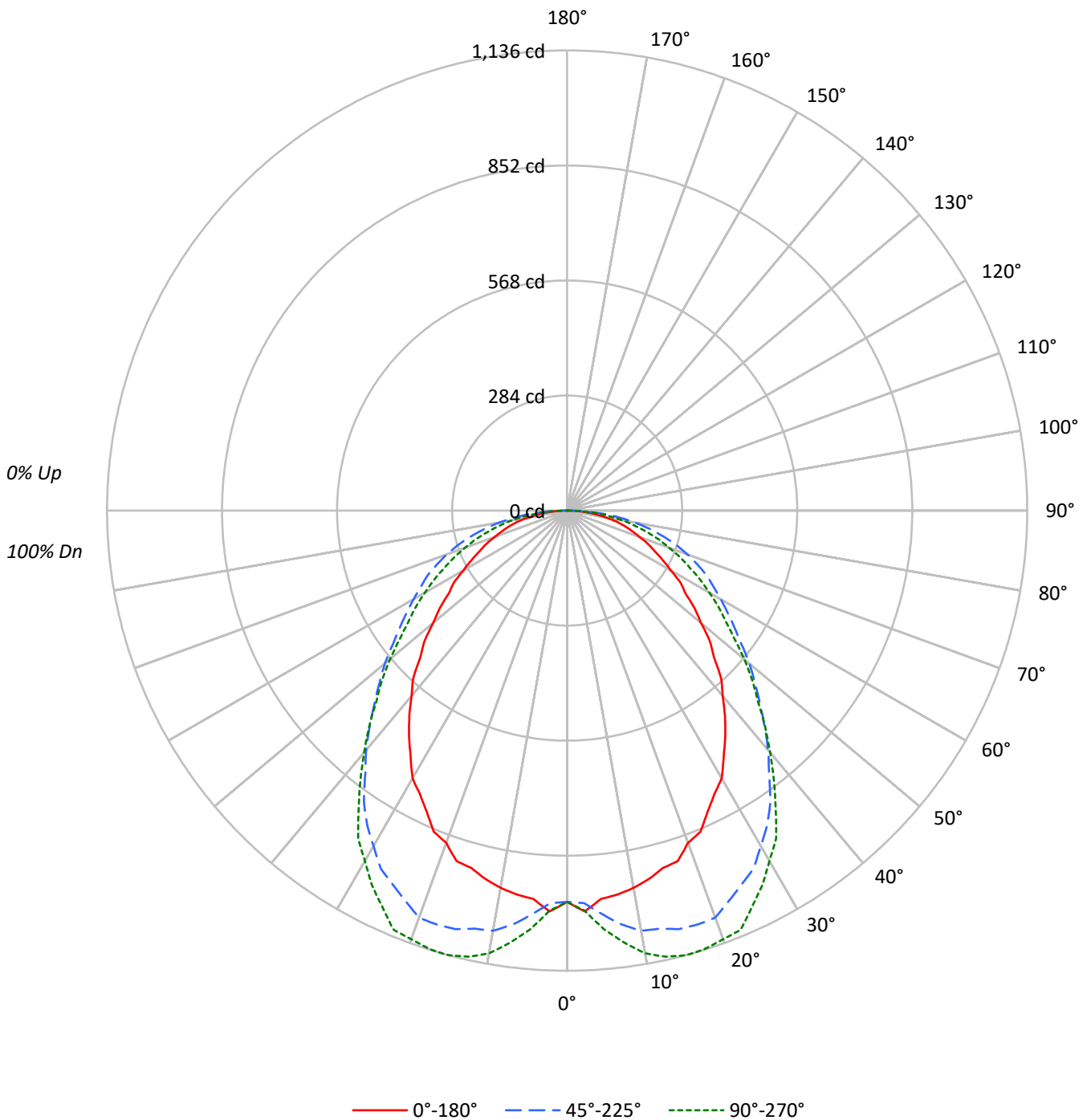
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	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	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	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°	2600	2600	2600
5°	2599	2703	2801
10°	2584	2878	3033
15°	2545	2979	3165
20°	2500	3062	3225
25°	2435	3025	3205
30°	2372	2970	3103
35°	2235	2874	2947
40°	2099	2710	2739
45°	1950	2559	2536
50°	1806	2459	2391
55°	1673	2366	2243
60°	1591	2355	2180
65°	1522	2425	2128
70°	1498	2485	2103
75°	1516	2548	2105
80°	1475	2636	2134
85°	1439	2689	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.3
10°-20°	299.0	10.1
20°-30°	460.3	15.6
30°-40°	526.9	17.8
40°-50°	498.1	16.9
50°-60°	423.0	14.3
60°-70°	336.4	11.4
70°-80°	228.1	7.7
80°-90°	84.6	2.9
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°	856.6	29.0
0°-40°	1383.5	46.8
0°-60°	2304.6	78.0
0°-90°	2953.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	962	982	1000	1035	1037	92
15°	913	1011	1069	1132	1136	259
25°	820	958	1019	1073	1080	378
35°	680	818	875	899	897	425
45°	512	634	672	680	666	399
55°	356	464	504	492	478	324
65°	239	342	381	348	334	239
75°	146	235	245	211	202	153
85°	47	99	87	71	69	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	990.4	976.2	970.1	990.4	988.3
5°	962.0	982.3	1000.5	1034.9	1036.9
7.5°	955.9	1002.5	1030.9	1073.4	1075.4
10°	945.8	1006.6	1053.1	1103.8	1109.9
12.5°	931.6	1010.6	1057.2	1120.0	1128.1
15°	913.4	1010.6	1069.4	1132.1	1136.2
17.5°	907.3	1010.6	1071.4	1126.1	1134.2
20°	872.9	1000.5	1069.4	1118.0	1126.1
22.5°	858.7	982.3	1043.0	1101.8	1120.0
25°	820.2	958.0	1018.7	1073.4	1079.5
27.5°	787.8	931.6	996.4	1043.0	1043.0
30°	763.5	899.2	955.9	1000.5	998.5
32.5°	719.0	854.7	919.5	953.9	960.0
35°	680.5	818.2	874.9	899.2	897.2
37.5°	640.0	771.6	818.2	846.6	838.5
40°	597.5	725.1	771.6	789.9	779.7
42.5°	563.0	676.4	721.0	733.2	723.0
45°	512.4	633.9	672.4	680.5	666.3
47.5°	478.0	587.3	627.8	627.8	619.7
50°	431.4	542.8	587.3	575.2	571.1
52.5°	397.0	504.3	542.8	532.7	520.5
55°	356.5	463.8	504.3	492.1	478.0
57.5°	332.1	431.4	469.9	455.7	443.5
60°	295.7	399.0	437.5	419.2	405.1
62.5°	267.3	370.6	407.1	384.8	370.6
65°	239.0	342.3	380.8	348.3	334.2
67.5°	216.7	315.9	348.3	313.9	301.8
70°	190.4	285.6	315.9	279.5	267.3
72.5°	168.1	261.3	281.5	245.1	237.0
75°	145.8	234.9	245.1	210.6	202.5
77.5°	123.5	208.6	208.6	178.2	170.1
80°	95.2	178.2	170.1	143.8	137.7
82.5°	72.9	141.8	129.6	107.3	103.3
85°	46.6	99.2	87.1	70.9	68.9
87.5°	22.3	52.7	42.5	34.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)