

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: CORELITE

Report Number: P234540

Luminaire Tested: **CTA-F-0100-30L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

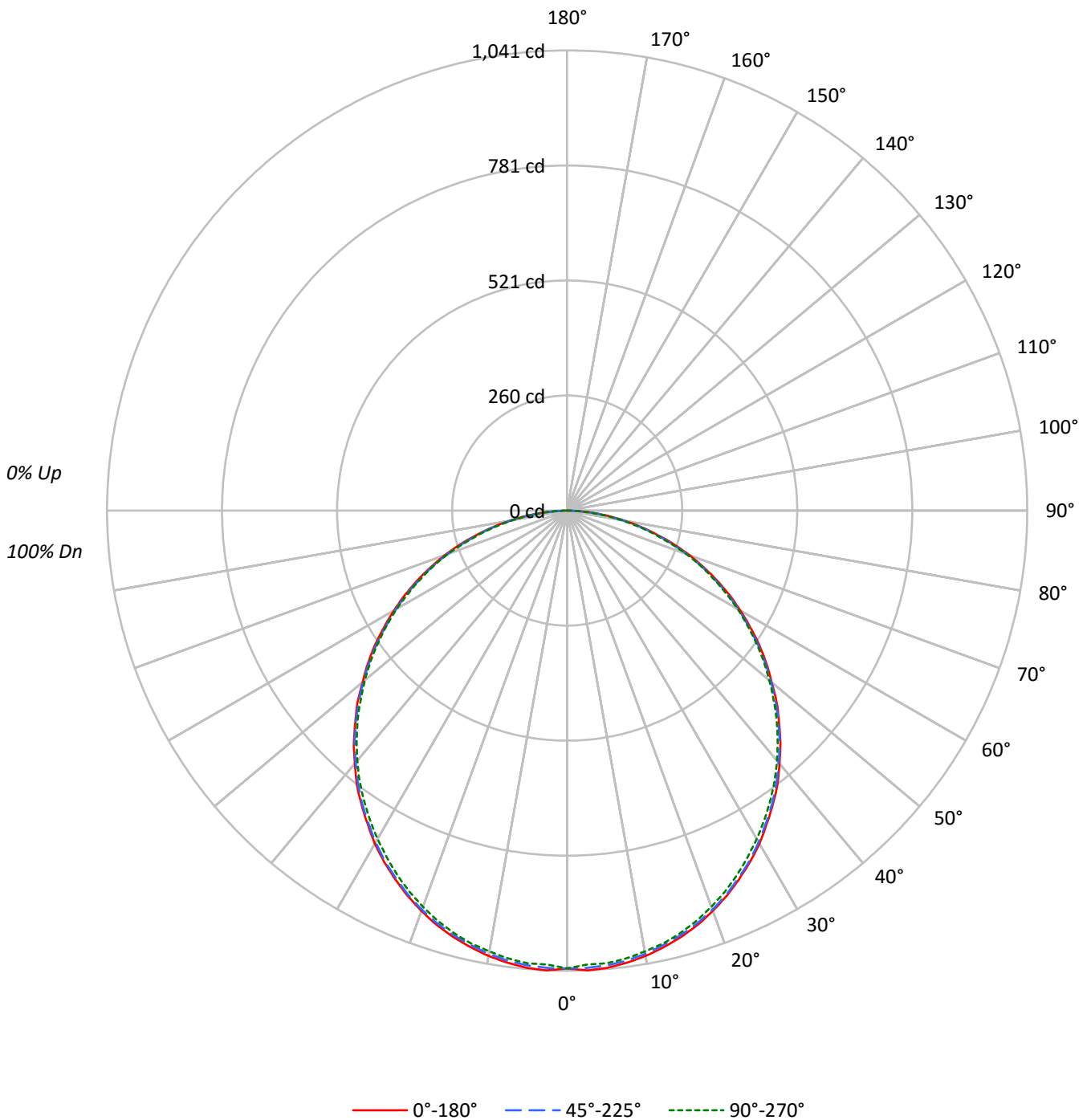
Lumens per Lamp: N/A
Luminaire Lumens: 2937.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
Input Voltage (V): 120
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	109	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	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	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	44	37	32	43	36	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°	6688	6688	6688
5°	6732	6694	6663
10°	6709	6677	6639
15°	6673	6647	6615
20°	6621	6602	6555
25°	6557	6536	6481
30°	6489	6460	6396
35°	6398	6375	6315
40°	6298	6274	6226
45°	6191	6174	6121
50°	6066	6047	5999
55°	5976	5922	5878
60°	5850	5788	5750
65°	5715	5628	5584
70°	5555	5428	5410
75°	5255	5157	5063
80°	4864	4790	4611
85°	4349	4060	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	279.8	9.5
20°-30°	421.1	14.3
30°-40°	503.7	17.1
40°-50°	519.4	17.7
50°-60°	469.7	16.0
60°-70°	365.0	12.4
70°-80°	218.7	7.4
80°-90°	62.6	2.1
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°	798.9	27.2
0°-40°	1302.6	44.3
0°-60°	2291.7	78.0
0°-90°	2937.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2937.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1038	1029	1033	1030	1028	99
15°	998	988	994	991	989	282
25°	920	912	917	911	910	424
35°	812	804	809	802	801	508
45°	678	675	676	669	670	523
55°	531	528	526	522	522	474
65°	374	370	368	365	365	370
75°	211	208	207	205	203	223
85°	59	58	55	52	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.6	1035.6	1035.6	1035.6	1035.6
2.5°	1041.3	1031.7	1035.6	1033.7	1027.9
5°	1038.5	1028.8	1032.7	1029.8	1027.9
7.5°	1031.7	1022.1	1026.9	1024.0	1022.1
10°	1023.1	1013.5	1018.3	1015.4	1012.5
12.5°	1011.5	1001.9	1006.7	1003.8	1002.9
15°	998.1	988.5	994.2	991.3	989.4
17.5°	982.7	973.1	978.8	976.9	973.1
20°	963.5	954.8	960.6	955.8	953.8
22.5°	943.3	935.6	940.4	933.7	932.7
25°	920.2	912.5	917.3	910.6	909.6
27.5°	896.2	888.5	893.3	886.5	883.7
30°	870.2	861.5	866.3	859.6	857.7
32.5°	840.4	833.7	837.5	831.7	829.8
35°	811.5	803.8	808.7	801.9	801.0
37.5°	781.7	774.0	777.9	770.2	771.2
40°	747.1	741.3	744.2	737.5	738.5
42.5°	714.4	709.6	711.5	703.8	704.8
45°	677.9	675.0	676.0	669.2	670.2
47.5°	643.3	638.5	639.4	633.7	633.7
50°	603.8	601.9	601.9	597.1	597.1
52.5°	568.3	565.4	564.4	559.6	560.6
55°	530.8	527.9	526.0	522.1	522.1
57.5°	491.3	489.4	486.5	482.7	483.7
60°	452.9	451.0	448.1	444.2	445.2
62.5°	413.5	410.6	408.7	406.7	404.8
65°	374.0	370.2	368.3	365.4	365.4
67.5°	333.7	330.8	328.8	326.9	326.9
70°	294.2	290.4	287.5	286.5	286.5
72.5°	252.9	249.0	246.2	246.2	242.3
75°	210.6	207.7	206.7	204.8	202.9
77.5°	171.2	168.3	167.3	165.4	163.5
80°	130.8	129.8	128.8	126.0	124.0
82.5°	94.2	93.3	91.3	88.5	86.5
85°	58.7	57.7	54.8	51.9	50.0
87.5°	25.0	24.0	20.2	17.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)