

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564258

Luminaire Tested: **SQ4-PR1-100U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

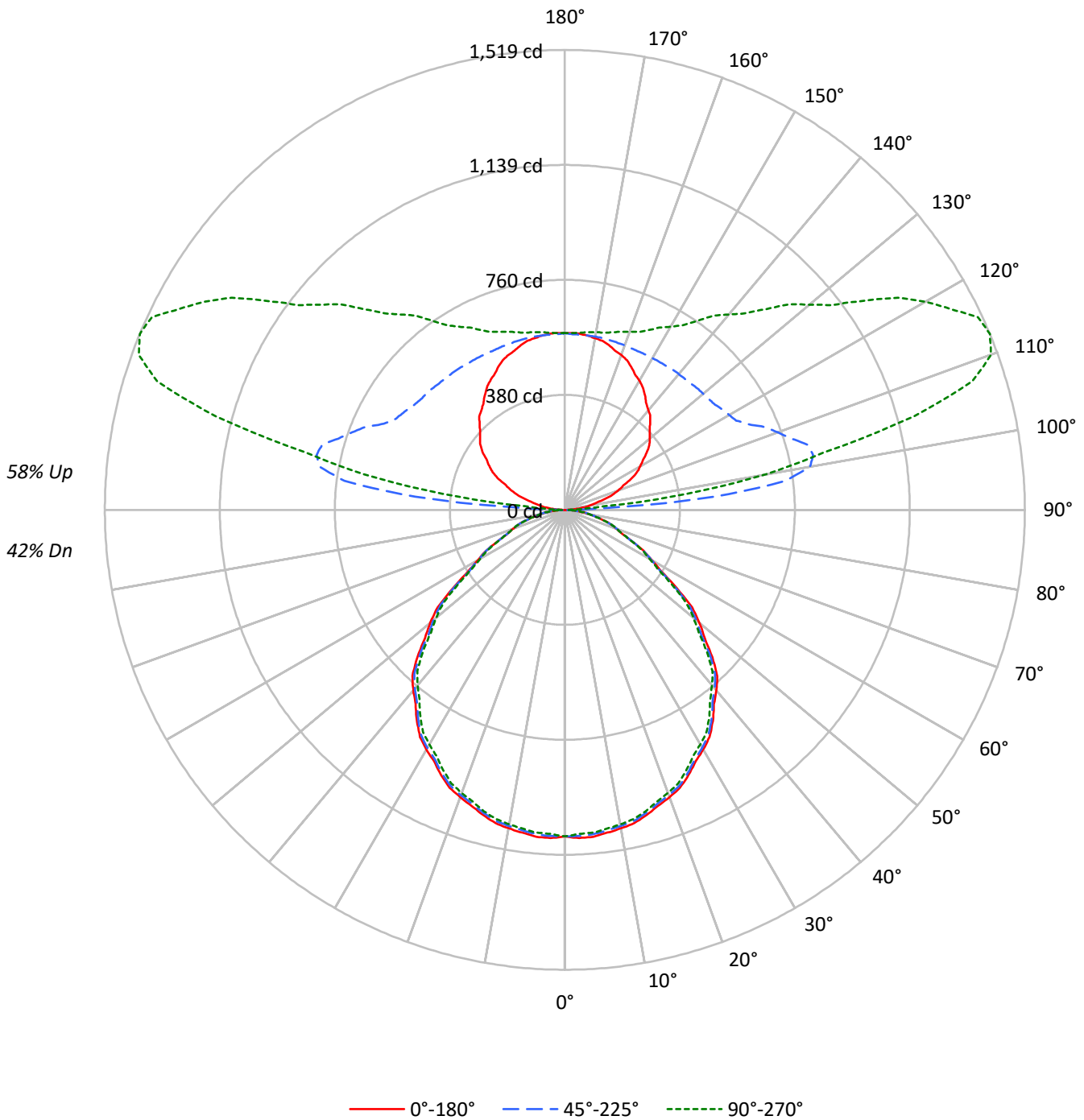
Lumens per Lamp: N/A
Luminaire Lumens: 6488.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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: 24 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9937	9886
15°	9963	9901	9848
20°	9914	9850	9776
25°	9843	9777	9664
30°	9737	9668	9530
35°	9594	9509	9373
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8120	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5292	5314	5272
70°	4861	4885	4885
75°	4670	4670	4702
80°	4394	4442	4394
85°	3536	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.6
10°-20°	291.8	4.5
20°-30°	440.1	6.8
30°-40°	524.4	8.1
40°-50°	517.0	8.0
50°-60°	395.1	6.1
60°-70°	244.5	3.8
70°-80°	138.9	2.1
80°-90°	43.5	0.7
90°-100°	273.2	4.2
100°-110°	754.3	11.6
110°-120°	777.9	12.0
120°-130°	625.1	9.6
130°-140°	491.3	7.6
140°-150°	376.8	5.8
150°-160°	270.8	4.2
160°-170°	165.6	2.6
170°-180°	55.8	0.9
0°-30°	833.8	12.9
0°-40°	1358.2	20.9
0°-60°	2270.2	35.0
0°-90°	2697.1	41.6
90°-120°	1805.5	27.8
90°-150°	3298.7	50.8
90°-180°	3791.0	58.4
0°-180°	6488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1084	1072	1076	1072	1070	103
15°	1043	1032	1037	1033	1031	294
25°	967	955	960	950	949	445
35°	852	842	844	833	832	532
45°	689	680	677	665	663	528
55°	451	444	441	434	432	404
65°	242	241	243	242	242	246
75°	131	131	131	132	132	138
85°	33	35	37	37	37	39
90°	2	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.4	1078.4	1078.4	1078.4	1078.4
2.5°	1085.1	1075.6	1078.4	1076.0	1071.0
5°	1084.0	1072.2	1075.6	1071.8	1070.0
7.5°	1075.6	1064.0	1067.4	1063.7	1062.6
10°	1068.2	1057.3	1060.7	1057.0	1055.2
12.5°	1060.0	1048.4	1052.6	1048.1	1046.3
15°	1043.1	1032.2	1036.6	1032.8	1031.0
17.5°	1024.5	1012.9	1017.3	1012.9	1010.6
20°	1009.7	998.8	1003.2	996.6	995.7
22.5°	993.3	982.4	986.8	978.1	977.9
25°	966.9	955.1	960.4	950.2	949.3
27.5°	935.5	924.6	929.0	918.6	917.5
30°	914.0	903.1	907.5	896.3	894.5
32.5°	889.5	879.3	883.0	871.8	870.7
35°	851.8	841.8	844.3	833.2	832.2
37.5°	808.8	799.8	801.2	788.9	788.0
40°	778.4	769.3	770.0	757.0	756.1
42.5°	744.9	735.9	735.1	722.1	721.2
45°	689.2	680.1	677.1	665.0	663.2
47.5°	625.7	616.6	611.0	601.1	599.8
50°	579.6	570.5	565.7	557.2	554.5
52.5°	529.8	520.7	516.6	508.9	506.2
55°	451.4	444.2	441.2	433.7	431.9
57.5°	376.9	372.0	371.2	363.9	363.2
60°	331.6	328.9	328.8	322.3	322.3
62.5°	293.0	291.0	292.4	288.1	287.4
65°	242.4	240.6	243.4	241.5	241.5
67.5°	202.5	202.5	204.2	203.4	203.4
70°	180.2	180.2	181.1	181.1	181.1
72.5°	160.1	159.4	161.8	161.8	161.1
75°	131.0	131.0	131.0	131.9	131.9
77.5°	102.0	102.2	102.9	102.7	102.0
80°	82.7	83.6	83.6	82.7	82.7
82.5°	63.3	64.3	64.3	64.1	63.3
85°	33.4	35.3	37.2	37.2	37.2
87.5°	10.0	13.3	16.4	16.5	16.0
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)