

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: P563567

Luminaire Tested: **SQ4-PP3-100U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563567
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

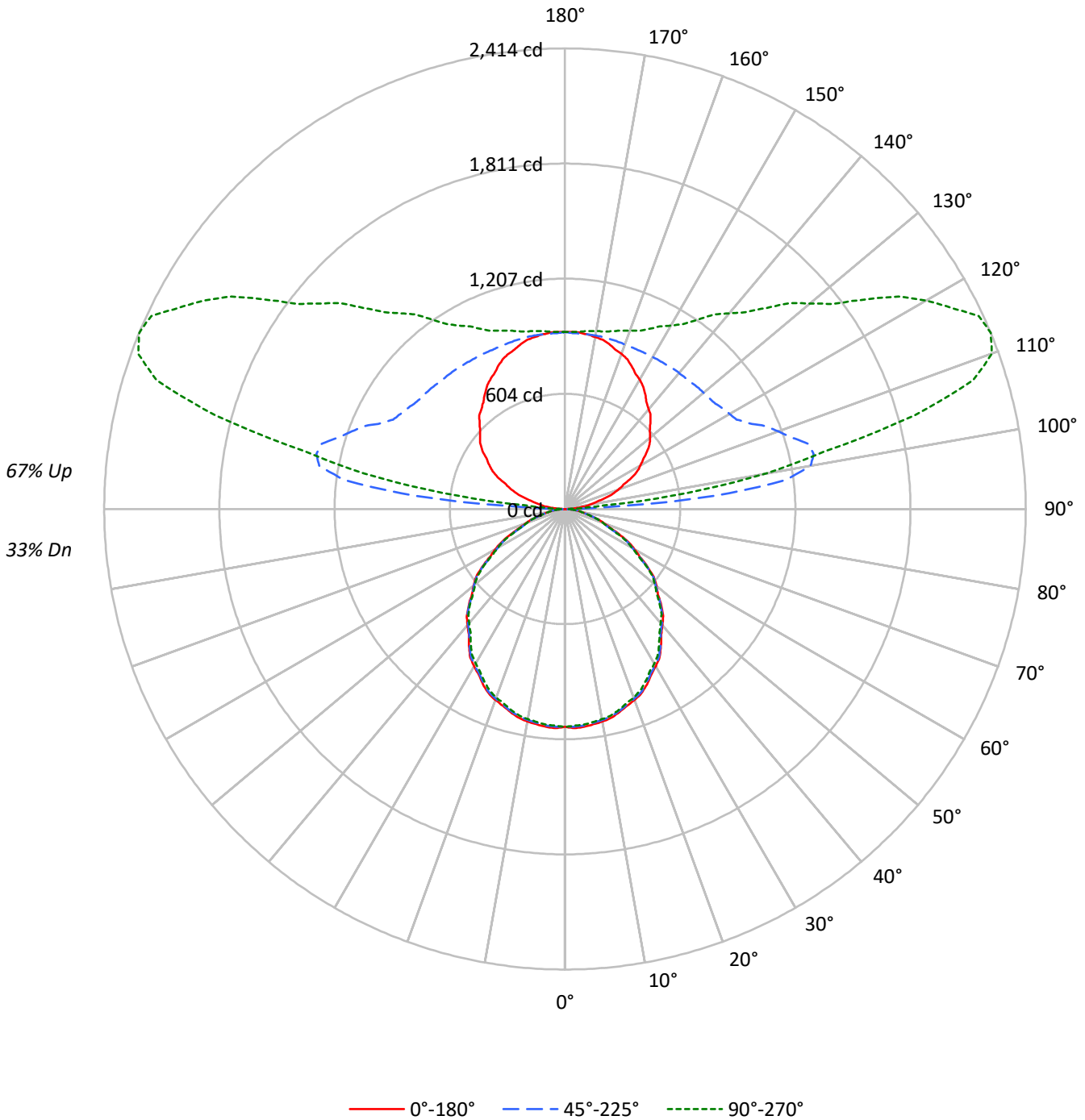
Lumens per Lamp: N/A
Luminaire Lumens: 8950.4 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7078	7035	7010
10°	7066	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5670	5594	5552
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3764	3764
75°	3379	3332	3284
80°	2979	3014	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.2
10°-20°	308.5	3.4
20°-30°	462.0	5.2
30°-40°	541.9	6.1
40°-50°	543.6	6.1
50°-60°	463.8	5.2
60°-70°	302.5	3.4
70°-80°	151.7	1.7
80°-90°	43.9	0.5
90°-100°	434.2	4.9
100°-110°	1198.7	13.4
110°-120°	1236.3	13.8
120°-130°	993.5	11.1
130°-140°	780.8	8.7
140°-150°	598.8	6.7
150°-160°	430.4	4.8
160°-170°	263.2	2.9
170°-180°	88.7	1.0
0°-30°	878.5	9.8
0°-40°	1420.4	15.9
0°-60°	2427.8	27.1
0°-90°	2925.9	32.7
90°-120°	2869.2	32.1
90°-150°	5242.2	58.6
90°-180°	6024.0	67.3
0°-180°	8950.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1136	1139	1135	1135	109
15°	1102	1092	1096	1092	1090	311
25°	1015	1004	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	529	527	522	519	518	470
65°	312	306	299	297	298	312
75°	142	142	140	139	138	154
85°	33	36	36	36	36	39
90°	3	6	12	13	15	6
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.6	1140.3	1142.4	1140.7	1136.0
5°	1146.4	1135.7	1139.4	1135.4	1135.4
7.5°	1138.6	1126.9	1130.6	1126.6	1126.4
10°	1131.4	1119.7	1123.4	1119.4	1118.4
12.5°	1121.0	1109.3	1113.8	1109.0	1108.8
15°	1102.4	1091.6	1096.4	1092.3	1090.4
17.5°	1081.4	1069.6	1075.4	1069.7	1068.9
20°	1065.3	1053.6	1059.3	1051.3	1051.3
22.5°	1046.1	1034.4	1040.9	1030.5	1030.5
25°	1015.3	1003.5	1008.3	999.2	998.3
27.5°	978.6	967.1	972.0	961.8	961.6
30°	952.2	941.4	947.2	936.2	935.2
32.5°	923.4	913.4	917.6	906.5	905.5
35°	877.1	868.3	871.1	861.1	860.1
37.5°	828.4	819.4	822.6	814.0	813.6
40°	794.0	788.1	789.0	781.9	780.0
42.5°	762.0	755.3	756.2	749.1	748.7
45°	712.9	708.0	707.9	700.9	700.9
47.5°	660.8	657.1	656.0	650.2	650.0
50°	624.8	621.9	620.8	615.8	614.8
52.5°	587.1	585.8	582.3	578.1	577.9
55°	528.7	526.7	521.7	518.6	517.7
57.5°	465.2	461.3	455.6	451.2	452.0
60°	419.5	415.6	407.5	405.5	405.5
62.5°	375.5	370.8	362.7	359.9	361.5
65°	312.4	306.5	299.4	297.4	298.4
67.5°	255.1	249.8	242.1	242.1	241.3
70°	218.3	215.3	209.3	209.3	209.3
72.5°	185.4	184.1	179.6	179.6	178.8
75°	142.2	142.2	140.2	139.2	138.2
77.5°	106.5	106.9	105.9	104.9	103.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	63.3	65.2	65.1	63.3	63.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	9.4	13.1	15.2	15.5	16.6
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)