

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: P562261

Luminaire Tested: **SQ4-PW1-075U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562261  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

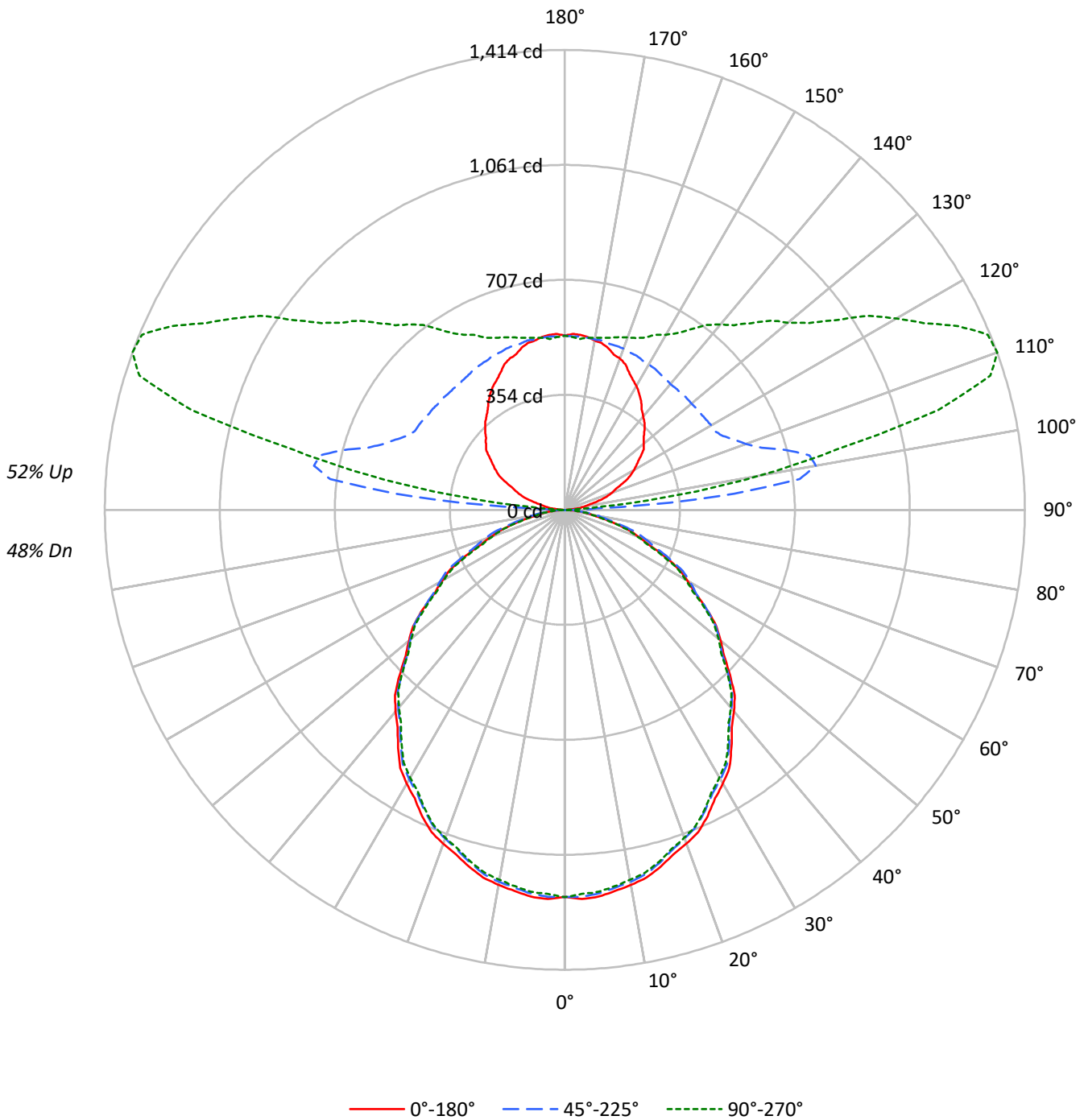
Lumens per Lamp: N/A  
Luminaire Lumens: 6356.7 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 55.6  
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	28	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10986	10986	10986
5°	11057	10969	10921
10°	10969	10881	10822
15°	10853	10732	10692
20°	10723	10558	10537
25°	10573	10381	10349
30°	10350	10193	10126
35°	10056	9914	9855
40°	9742	9591	9552
45°	9363	9240	9199
50°	8975	8899	8839
55°	8556	8556	8421
60°	8034	8189	7898
65°	7353	7719	7169
70°	6480	7103	6312
75°	5536	6356	5386
80°	4293	5350	4346
85°	2774	4107	3663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	1.8
10°-20°	316.6	5.0
20°-30°	469.6	7.4
30°-40°	549.4	8.6
40°-50°	547.0	8.6
50°-60°	472.3	7.4
60°-70°	340.0	5.3
70°-80°	178.3	2.8
80°-90°	44.2	0.7
90°-100°	244.1	3.8
100°-110°	694.5	10.9
110°-120°	665.4	10.5
120°-130°	526.6	8.3
130°-140°	422.7	6.6
140°-150°	330.9	5.2
150°-160°	242.1	3.8
160°-170°	150.0	2.4
170°-180°	50.9	0.8
0°-30°	898.3	14.1
0°-40°	1447.7	22.8
0°-60°	2467.0	38.8
0°-90°	3029.5	47.7
90°-120°	1603.9	25.2
90°-150°	2884.1	45.4
90°-180°	3327.0	52.3
0°-180°	6356.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1194	1181	1184	1181	1179	113
15°	1136	1122	1124	1122	1119	320
25°	1039	1021	1020	1014	1017	478
35°	893	880	880	872	875	558
45°	718	711	708	706	705	554
55°	532	531	532	524	524	475
65°	337	347	354	340	328	334
75°	155	170	178	166	151	166
85°	26	34	39	37	35	35
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	



TEST NUMBER: P562261

CATALOG NUMBER: SQ4-PW1-075U-075D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1197.5	1187.6	1190.7	1188.1	1182.3
5°	1193.9	1180.6	1184.4	1181.3	1179.2
7.5°	1181.7	1169.4	1172.3	1168.9	1167.7
10°	1170.8	1158.5	1161.4	1157.1	1155.1
12.5°	1158.2	1145.1	1147.9	1143.7	1142.5
15°	1136.2	1121.8	1123.6	1121.5	1119.4
17.5°	1110.6	1096.0	1096.3	1093.0	1092.5
20°	1092.1	1076.7	1075.3	1071.2	1073.2
22.5°	1072.0	1055.8	1054.4	1048.5	1051.4
25°	1038.6	1021.2	1019.7	1013.5	1016.6
27.5°	1000.0	982.8	982.8	974.1	977.4
30°	971.5	955.1	956.8	946.4	950.5
32.5°	941.3	926.5	927.4	917.0	921.1
35°	892.8	880.5	880.2	871.9	875.0
37.5°	843.3	832.4	830.7	825.9	826.7
40°	808.9	799.6	796.3	793.1	793.1
42.5°	772.8	764.4	761.0	758.7	757.9
45°	717.6	711.4	708.2	706.0	705.0
47.5°	663.0	657.3	654.4	652.9	651.9
50°	625.3	621.2	620.0	616.9	615.8
52.5°	587.5	585.0	583.9	579.9	578.9
55°	531.9	530.9	531.9	524.5	523.5
57.5°	474.0	475.6	479.0	469.1	466.6
60°	435.4	439.5	443.8	432.1	428.0
62.5°	395.9	402.5	408.5	395.2	389.4
65°	336.8	347.0	353.6	339.7	328.4
67.5°	279.7	292.4	300.3	285.3	272.6
70°	240.2	254.6	263.3	248.3	234.0
72.5°	205.8	221.8	228.9	214.7	200.4
75°	155.3	169.6	178.3	166.5	151.1
77.5°	110.2	123.7	130.9	120.6	107.8
80°	80.8	95.1	100.7	92.1	81.8
82.5°	57.3	69.2	73.0	67.8	60.8
85°	26.2	34.4	38.8	36.7	34.6
87.5°	6.7	12.5	15.9	16.0	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)