

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: P561536

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561536  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

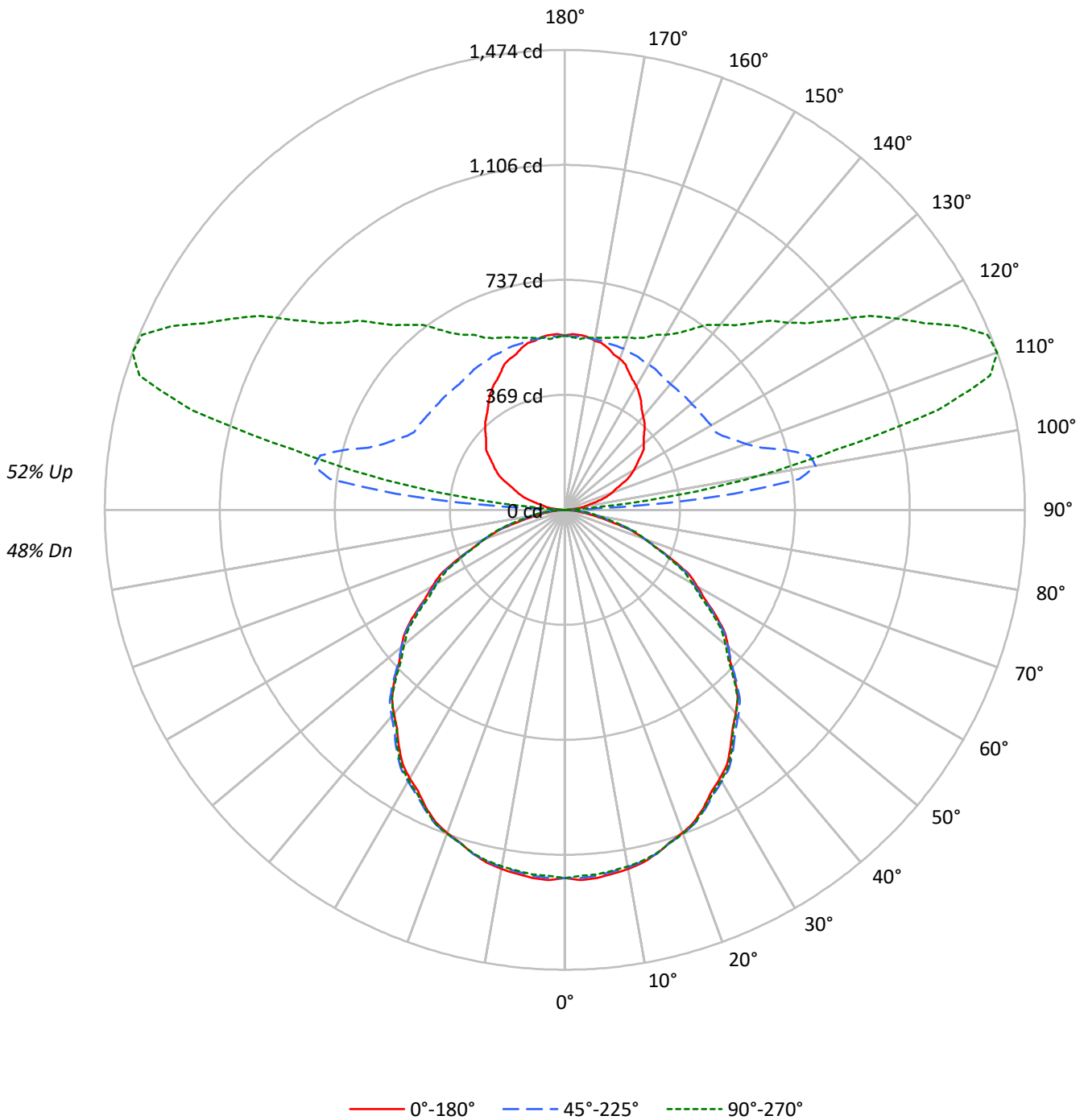
Lumens per Lamp: N/A  
Luminaire Lumens: 6689.1 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 55.4  
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	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

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

	0°	45°	90°
0°	10892	10892	10892
5°	10975	10904	10864
10°	10948	10897	10867
15°	10891	10891	10880
20°	10819	10851	10851
25°	10716	10795	10761
30°	10586	10714	10668
35°	10429	10588	10515
40°	10257	10401	10296
45°	10070	10142	9984
50°	9806	9806	9650
55°	9495	9373	9231
60°	9036	8855	8715
65°	8353	8187	8115
70°	7313	7372	7343
75°	5885	6509	6548
80°	4181	5520	5574
85°	2551	4626	4626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	1.7
10°-20°	320.6	4.8
20°-30°	485.6	7.3
30°-40°	582.1	8.7
40°-50°	593.6	8.9
50°-60°	518.2	7.7
60°-70°	371.0	5.5
70°-80°	191.1	2.9
80°-90°	48.3	0.7
90°-100°	254.3	3.8
100°-110°	723.6	10.8
110°-120°	693.3	10.4
120°-130°	548.7	8.2
130°-140°	440.5	6.6
140°-150°	344.8	5.2
150°-160°	252.3	3.8
160°-170°	156.3	2.3
170°-180°	53.0	0.8
0°-30°	918.0	13.7
0°-40°	1500.1	22.4
0°-60°	2611.9	39.0
0°-90°	3222.2	48.2
90°-120°	1671.3	25.0
90°-150°	3005.3	44.9
90°-180°	3467.0	51.8
0°-180°	6689.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1185	1173	1177	1174	1173	112
15°	1140	1131	1140	1140	1139	321
25°	1053	1045	1060	1057	1057	484
35°	926	924	940	934	934	579
45°	772	770	777	767	765	594
55°	590	583	583	574	574	526
65°	383	374	375	372	372	378
75°	165	173	183	184	184	178
85°	24	37	44	45	44	33
90°	0	0	0	0	0	2
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1187.6	1177.4	1180.6	1177.9	1173.6
5°	1185.0	1173.3	1177.4	1174.1	1173.0
7.5°	1176.5	1164.7	1170.1	1167.9	1166.9
10°	1168.6	1156.9	1163.1	1160.9	1159.9
12.5°	1158.1	1147.2	1154.4	1152.2	1152.0
15°	1140.2	1130.6	1140.2	1140.2	1139.1
17.5°	1117.7	1108.9	1119.2	1119.8	1119.2
20°	1101.9	1092.3	1105.2	1104.1	1105.2
22.5°	1082.7	1074.8	1088.6	1085.8	1086.8
25°	1052.7	1045.3	1060.4	1057.1	1057.1
27.5°	1017.3	1012.0	1028.5	1025.0	1025.0
30°	993.7	988.4	1005.7	1001.4	1001.4
32.5°	967.5	963.8	980.4	975.1	975.1
35°	925.9	923.8	940.1	933.6	933.6
37.5°	883.1	881.1	896.0	888.0	885.5
40°	851.6	850.5	863.6	854.9	854.9
42.5°	820.1	819.0	830.4	819.9	819.9
45°	771.8	769.6	777.3	767.4	765.2
47.5°	719.1	717.0	721.7	711.0	709.9
50°	683.2	681.1	683.2	673.4	672.3
52.5°	646.5	642.7	643.0	633.2	633.0
55°	590.3	582.8	582.7	573.9	573.9
57.5°	530.8	521.0	521.9	514.4	513.4
60°	489.7	479.1	479.9	473.3	472.3
62.5°	449.5	437.1	439.7	432.2	432.0
65°	382.6	374.1	375.0	371.7	371.7
67.5°	318.3	310.4	316.1	313.5	313.3
70°	271.1	265.8	273.3	273.3	272.2
72.5°	227.4	227.2	236.6	236.6	237.2
75°	165.1	172.6	182.6	183.7	183.7
77.5°	110.2	123.4	134.5	134.9	134.7
80°	78.7	93.7	103.9	106.0	104.9
82.5°	53.3	69.2	77.6	79.8	78.7
85°	24.1	36.9	43.7	44.8	43.7
87.5°	7.0	14.7	17.5	17.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)