

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: P561693

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561693  
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-PC3-125U-075D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

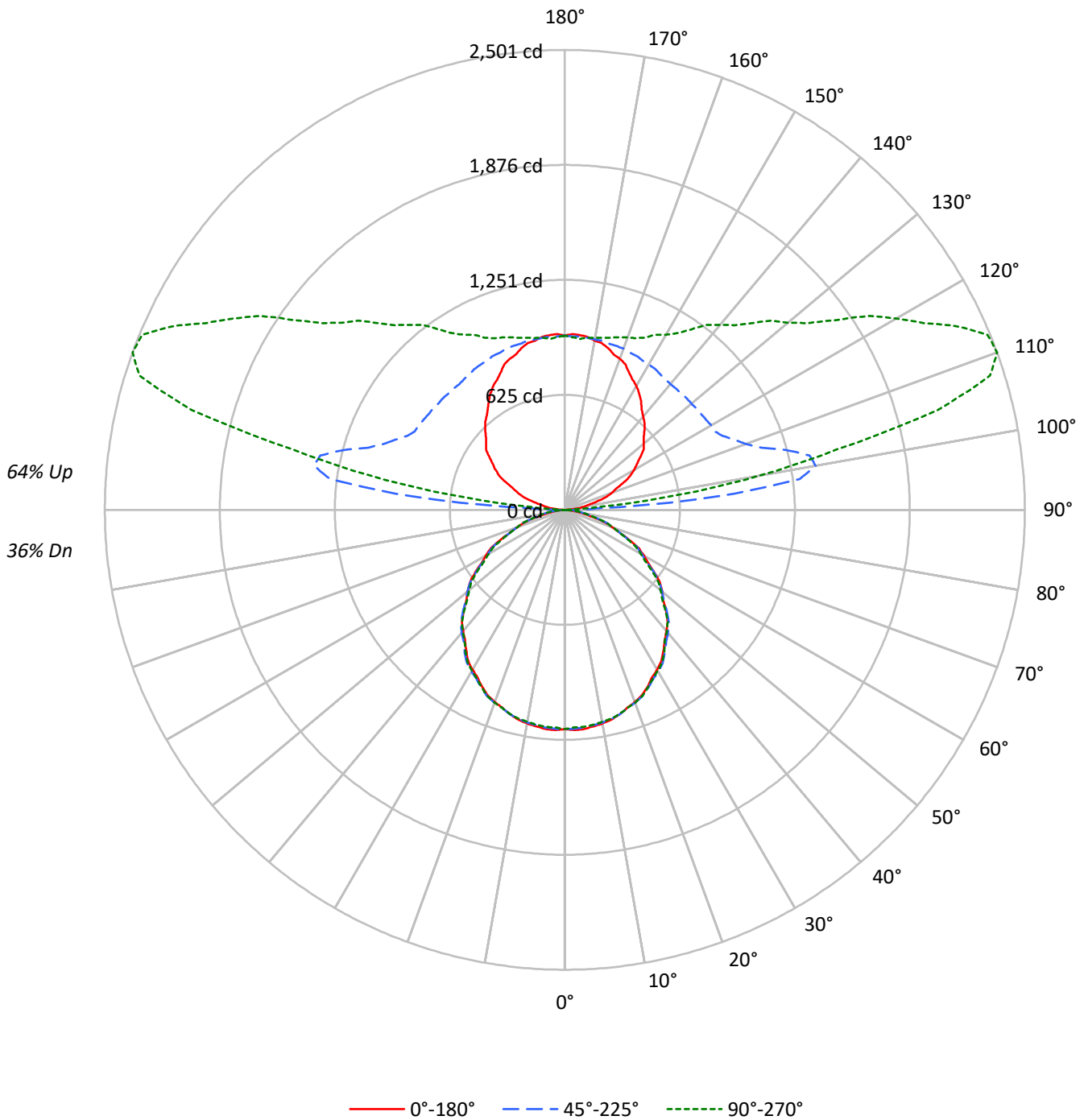
Lumens per Lamp: N/A  
Luminaire Lumens: 9135.2 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.9  
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	31	25
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	45°	90°
0°	10996	10996	10996
5°	11079	11007	10966
10°	11052	11001	10970
15°	10994	10994	10983
20°	10922	10954	10954
25°	10818	10897	10863
30°	10687	10816	10769
35°	10528	10690	10614
40°	10354	10500	10394
45°	10166	10237	10079
50°	9900	9900	9742
55°	9585	9461	9320
60°	9123	8940	8796
65°	8431	8263	8191
70°	7383	7443	7413
75°	5939	6570	6609
80°	4224	5568	5627
85°	2572	4668	4668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.2
10°-20°	323.7	3.5
20°-30°	490.2	5.4
30°-40°	587.7	6.4
40°-50°	599.2	6.6
50°-60°	523.1	5.7
60°-70°	374.5	4.1
70°-80°	192.9	2.1
80°-90°	48.8	0.5
90°-100°	431.5	4.7
100°-110°	1227.8	13.4
110°-120°	1176.4	12.9
120°-130°	931.1	10.2
130°-140°	747.3	8.2
140°-150°	585.1	6.4
150°-160°	428.1	4.7
160°-170°	265.2	2.9
170°-180°	90.0	1.0
0°-30°	926.7	10.1
0°-40°	1514.3	16.6
0°-60°	2636.6	28.9
0°-90°	3252.8	35.6
90°-120°	2835.8	31.0
90°-150°	5099.2	55.8
90°-180°	5882.0	64.4
0°-180°	9135.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1196	1184	1188	1185	1184	114
15°	1151	1141	1151	1151	1150	325
25°	1063	1055	1070	1067	1067	489
35°	935	932	949	942	942	585
45°	779	777	785	775	772	600
55°	596	588	588	579	579	531
65°	386	378	378	375	375	382
75°	167	174	184	185	185	180
85°	24	37	44	45	44	33
90°	0	0	0	0	0	3
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1198.9	1188.5	1191.8	1189.1	1184.8
5°	1196.2	1184.4	1188.5	1185.2	1184.1
7.5°	1187.6	1175.8	1181.2	1179.0	1177.9
10°	1179.7	1167.8	1174.2	1171.9	1170.9
12.5°	1169.1	1158.1	1165.3	1163.1	1162.9
15°	1151.0	1141.3	1151.0	1151.0	1149.9
17.5°	1128.3	1119.4	1129.8	1130.5	1129.8
20°	1112.4	1102.7	1115.7	1114.6	1115.7
22.5°	1093.0	1085.0	1098.9	1096.1	1097.1
25°	1062.7	1055.2	1070.4	1067.1	1067.1
27.5°	1027.0	1021.6	1038.2	1034.7	1034.7
30°	1003.1	997.7	1015.3	1010.8	1010.8
32.5°	976.6	973.0	989.7	984.4	984.4
35°	934.7	932.5	949.1	942.4	942.4
37.5°	891.4	889.5	904.5	896.5	893.9
40°	859.7	858.6	871.8	863.0	863.0
42.5°	827.9	826.8	838.3	827.7	827.7
45°	779.1	776.9	784.6	774.6	772.5
47.5°	725.9	723.8	728.6	717.7	716.6
50°	689.7	687.6	689.7	679.8	678.7
52.5°	652.6	648.8	649.1	639.2	639.0
55°	595.9	588.4	588.2	579.4	579.4
57.5°	535.9	526.0	526.8	519.3	518.2
60°	494.4	483.6	484.5	477.8	476.7
62.5°	453.8	441.3	443.8	436.3	436.1
65°	386.2	377.6	378.5	375.2	375.2
67.5°	321.4	313.4	319.1	316.5	316.3
70°	273.7	268.3	275.9	275.9	274.8
72.5°	229.5	229.3	238.8	238.8	239.5
75°	166.6	174.2	184.3	185.4	185.4
77.5°	111.2	124.6	135.7	136.2	136.0
80°	79.5	94.6	104.8	107.0	105.9
82.5°	53.9	69.8	78.4	80.5	79.5
85°	24.3	37.2	44.1	45.2	44.1
87.5°	7.1	14.8	17.7	17.6	15.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)