

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: P561687

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561687  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

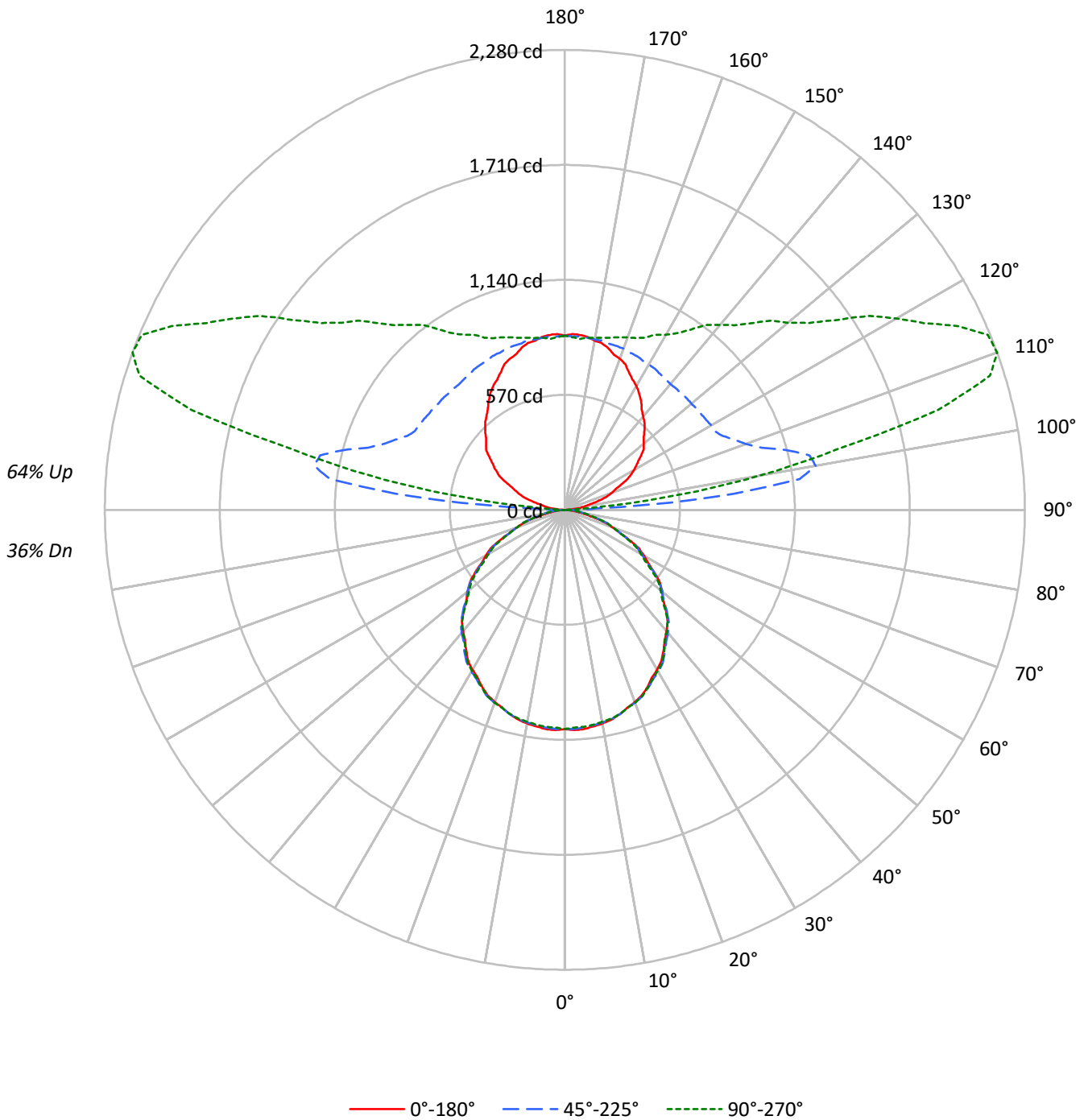
Lumens per Lamp: N/A  
Luminaire Lumens: 8328.7 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 73.4  
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	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°	10025	10025	10025
5°	10101	10036	9999
10°	10076	10029	10001
15°	10024	10024	10014
20°	9958	9987	9987
25°	9863	9935	9904
30°	9744	9861	9818
35°	9598	9746	9677
40°	9440	9573	9476
45°	9268	9334	9190
50°	9025	9025	8882
55°	8739	8627	8496
60°	8316	8150	8019
65°	7687	7534	7468
70°	6730	6784	6757
75°	5415	5989	6024
80°	3847	5079	5133
85°	2339	4256	4256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	1.2
10°-20°	295.1	3.5
20°-30°	446.9	5.4
30°-40°	535.8	6.4
40°-50°	546.3	6.6
50°-60°	476.9	5.7
60°-70°	341.4	4.1
70°-80°	175.8	2.1
80°-90°	44.5	0.5
90°-100°	393.4	4.7
100°-110°	1119.5	13.4
110°-120°	1072.5	12.9
120°-130°	848.9	10.2
130°-140°	681.4	8.2
140°-150°	533.4	6.4
150°-160°	390.3	4.7
160°-170°	241.8	2.9
170°-180°	82.0	1.0
0°-30°	844.9	10.1
0°-40°	1380.6	16.6
0°-60°	2403.8	28.9
0°-90°	2965.6	35.6
90°-120°	2585.4	31.0
90°-150°	4649.1	55.8
90°-180°	5363.0	64.4
0°-180°	8328.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1091	1080	1084	1081	1080	104
15°	1049	1040	1049	1049	1048	296
25°	969	962	976	973	973	446
35°	852	850	865	859	859	533
45°	710	708	715	706	704	547
55°	543	536	536	528	528	484
65°	352	344	345	342	342	348
75°	152	159	168	169	169	164
85°	22	34	40	41	40	30
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1093.0	1083.6	1086.6	1084.1	1080.2
5°	1090.6	1079.8	1083.6	1080.6	1079.6
7.5°	1082.8	1072.0	1077.0	1074.9	1073.9
10°	1075.5	1064.7	1070.5	1068.5	1067.5
12.5°	1065.9	1055.8	1062.5	1060.4	1060.2
15°	1049.4	1040.5	1049.4	1049.4	1048.4
17.5°	1028.7	1020.6	1030.1	1030.7	1030.1
20°	1014.2	1005.3	1017.2	1016.2	1017.2
22.5°	996.5	989.2	1001.9	999.3	1000.3
25°	968.9	962.0	975.9	972.9	972.9
27.5°	936.3	931.4	946.6	943.3	943.3
30°	914.6	909.6	925.6	921.6	921.6
32.5°	890.4	887.1	902.3	897.5	897.5
35°	852.2	850.2	865.3	859.2	859.2
37.5°	812.7	811.0	824.6	817.3	815.0
40°	783.8	782.8	794.8	786.8	786.8
42.5°	754.8	753.8	764.2	754.6	754.6
45°	710.3	708.4	715.4	706.3	704.3
47.5°	661.8	659.9	664.2	654.4	653.4
50°	628.8	626.9	628.8	619.7	618.8
52.5°	595.0	591.5	591.8	582.7	582.5
55°	543.3	536.4	536.3	528.2	528.2
57.5°	488.6	479.5	480.3	473.5	472.5
60°	450.7	440.9	441.7	435.6	434.6
62.5°	413.7	402.3	404.7	397.8	397.6
65°	352.1	344.3	345.1	342.1	342.1
67.5°	293.0	285.7	291.0	288.6	288.4
70°	249.5	244.6	251.5	251.5	250.5
72.5°	209.3	209.1	217.7	217.7	218.3
75°	151.9	158.8	168.0	169.0	169.0
77.5°	101.4	113.6	123.8	124.2	124.0
80°	72.4	86.2	95.6	97.6	96.6
82.5°	49.1	63.7	71.4	73.4	72.4
85°	22.1	33.9	40.2	41.2	40.2
87.5°	6.4	13.5	16.1	16.1	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)