

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: P562037

Luminaire Tested: **SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562037  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

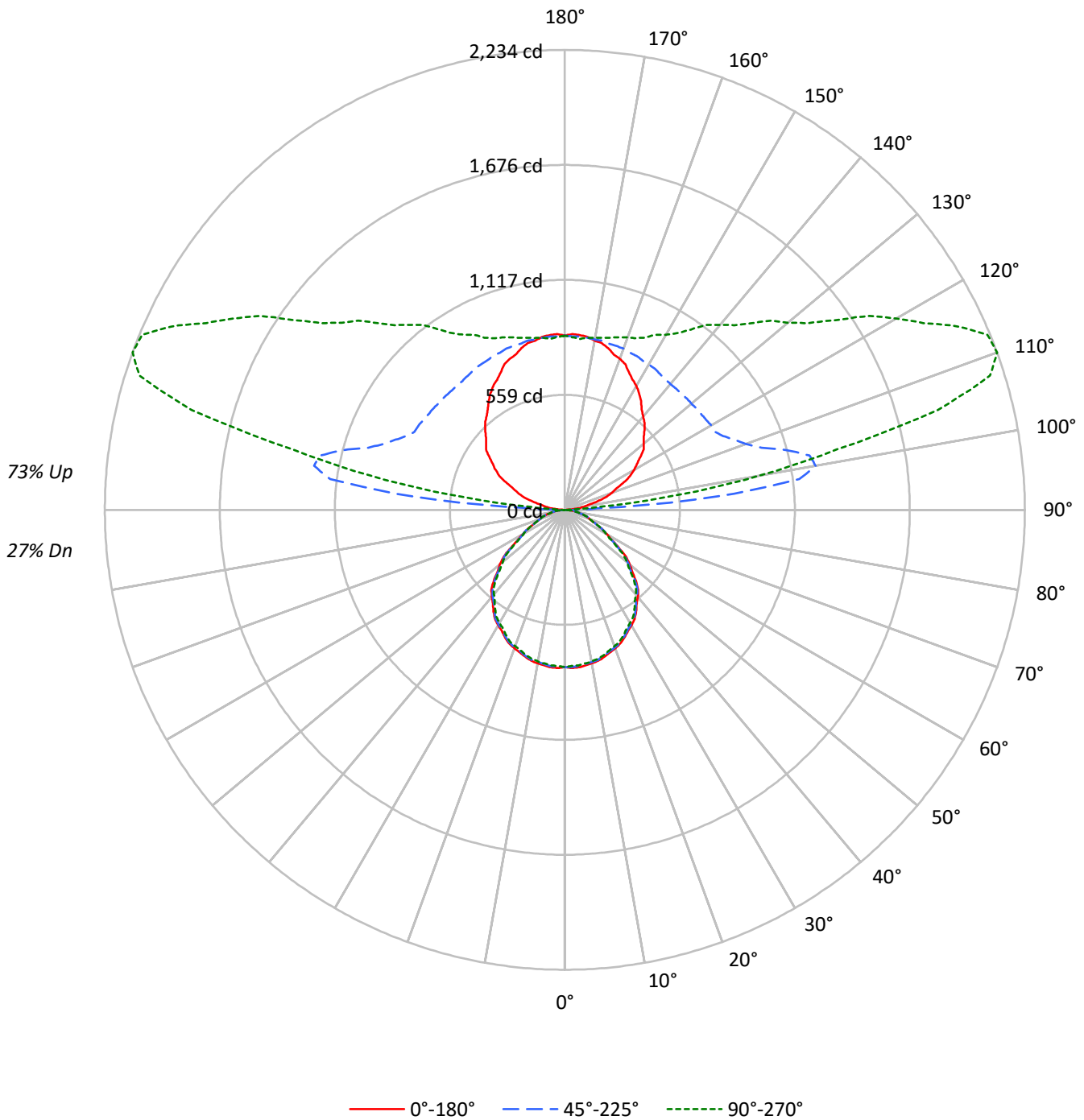
Lumens per Lamp: N/A  
Luminaire Lumens: 7164.5 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62  
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	85	77	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	26	22	20	19	14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	12
6	59	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	7050	7050	7050
5°	7114	7059	7022
10°	7091	7041	7005
15°	7060	7016	6978
20°	7024	6979	6928
25°	6975	6927	6847
30°	6899	6850	6752
35°	6797	6739	6642
40°	6642	6571	6452
45°	6373	6260	6131
50°	5895	5753	5639
55°	5146	5028	4922
60°	4336	4299	4215
65°	3751	3764	3735
70°	3445	3461	3461
75°	3308	3308	3333
80°	3114	3145	3114
85°	2509	2784	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	1.0
10°-20°	206.7	2.9
20°-30°	311.8	4.4
30°-40°	371.6	5.2
40°-50°	366.3	5.1
50°-60°	280.0	3.9
60°-70°	173.2	2.4
70°-80°	98.4	1.4
80°-90°	29.9	0.4
90°-100°	385.4	5.4
100°-110°	1096.7	15.3
110°-120°	1050.8	14.7
120°-130°	831.6	11.6
130°-140°	667.5	9.3
140°-150°	522.6	7.3
150°-160°	382.4	5.3
160°-170°	236.8	3.3
170°-180°	80.4	1.1
0°-30°	590.8	8.2
0°-40°	962.4	13.4
0°-60°	1608.6	22.5
0°-90°	1910.2	26.7
90°-120°	2532.9	35.4
90°-150°	4554.7	63.6
90°-180°	5254.0	73.3
0°-180°	7164.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	768	760	762	760	758	73
15°	739	731	734	732	731	209
25°	685	677	680	673	673	315
35°	604	596	598	590	590	377
45°	488	482	480	471	470	374
55°	320	315	313	307	306	287
65°	172	170	172	171	171	174
75°	93	93	93	94	94	98
85°	24	25	26	26	26	28
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	764.1	764.1	764.1	764.1	764.1
2.5°	768.9	762.2	764.1	762.5	758.9
5°	768.1	759.7	762.2	759.5	758.2
7.5°	762.2	753.9	756.4	753.7	752.9
10°	756.9	749.2	751.6	749.0	747.7
12.5°	751.1	742.9	745.8	742.6	741.4
15°	739.1	731.4	734.5	731.9	730.6
17.5°	726.0	717.7	720.8	717.8	716.1
20°	715.4	707.7	710.8	706.2	705.6
22.5°	703.8	696.1	699.2	693.0	692.9
25°	685.2	676.8	680.5	673.3	672.6
27.5°	662.9	655.2	658.3	650.9	650.1
30°	647.6	639.9	643.0	635.1	633.8
32.5°	630.3	623.1	625.7	617.7	617.0
35°	603.5	596.5	598.3	590.4	589.7
37.5°	573.1	566.7	567.7	559.0	558.4
40°	551.5	545.1	545.6	536.4	535.7
42.5°	527.8	521.4	520.9	511.6	511.0
45°	488.4	481.9	479.8	471.2	469.9
47.5°	443.3	436.9	432.9	425.9	425.0
50°	410.7	404.3	400.8	394.9	392.9
52.5°	375.4	369.0	366.1	360.6	358.7
55°	319.9	314.7	312.6	307.3	306.0
57.5°	267.1	263.6	263.0	257.9	257.3
60°	235.0	233.0	233.0	228.4	228.4
62.5°	207.6	206.2	207.2	204.2	203.6
65°	171.8	170.5	172.4	171.1	171.1
67.5°	143.5	143.5	144.7	144.1	144.1
70°	127.7	127.7	128.3	128.3	128.3
72.5°	113.5	113.0	114.7	114.6	114.1
75°	92.8	92.8	92.8	93.5	93.5
77.5°	72.3	72.4	72.9	72.8	72.3
80°	58.6	59.2	59.2	58.6	58.6
82.5°	44.9	45.5	45.5	45.4	44.9
85°	23.7	25.0	26.3	26.3	26.3
87.5°	6.8	8.9	10.5	10.5	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)