

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: P562089

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562089
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-PR1-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

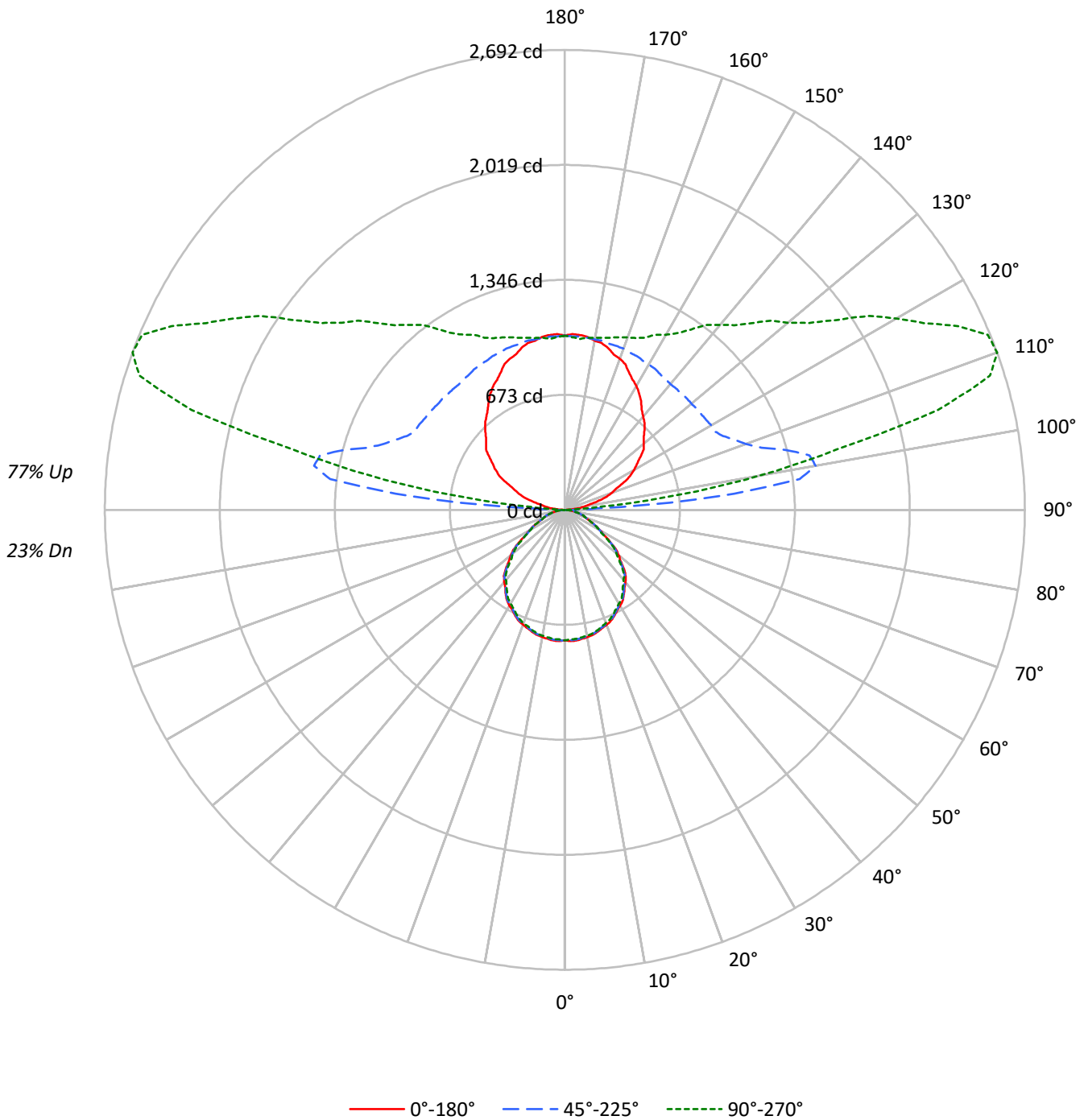
Lumens per Lamp: N/A
Luminaire Lumens: 8242.3 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.6
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	50	30	10	0	
RCR																						
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23				23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20				20
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17				17
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14				14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12				12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9				9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8				8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7				7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6				6

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	0.9
10°-20°	206.7	2.5
20°-30°	311.8	3.8
30°-40°	371.6	4.5
40°-50°	366.3	4.4
50°-60°	280.0	3.4
60°-70°	173.2	2.1
70°-80°	98.4	1.2
80°-90°	29.9	0.4
90°-100°	464.5	5.6
100°-110°	1321.7	16.0
110°-120°	1266.3	15.4
120°-130°	1002.2	12.2
130°-140°	804.5	9.8
140°-150°	629.8	7.6
150°-160°	460.8	5.6
160°-170°	285.4	3.5
170°-180°	96.9	1.2
0°-30°	590.8	7.2
0°-40°	962.4	11.7
0°-60°	1608.6	19.5
0°-90°	1910.2	23.2
90°-120°	3052.5	37.0
90°-150°	5489.0	66.6
90°-180°	6332.0	76.8
0°-180°	8242.3	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°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

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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°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)