

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: P561725

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561725
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-PC3-150U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID 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

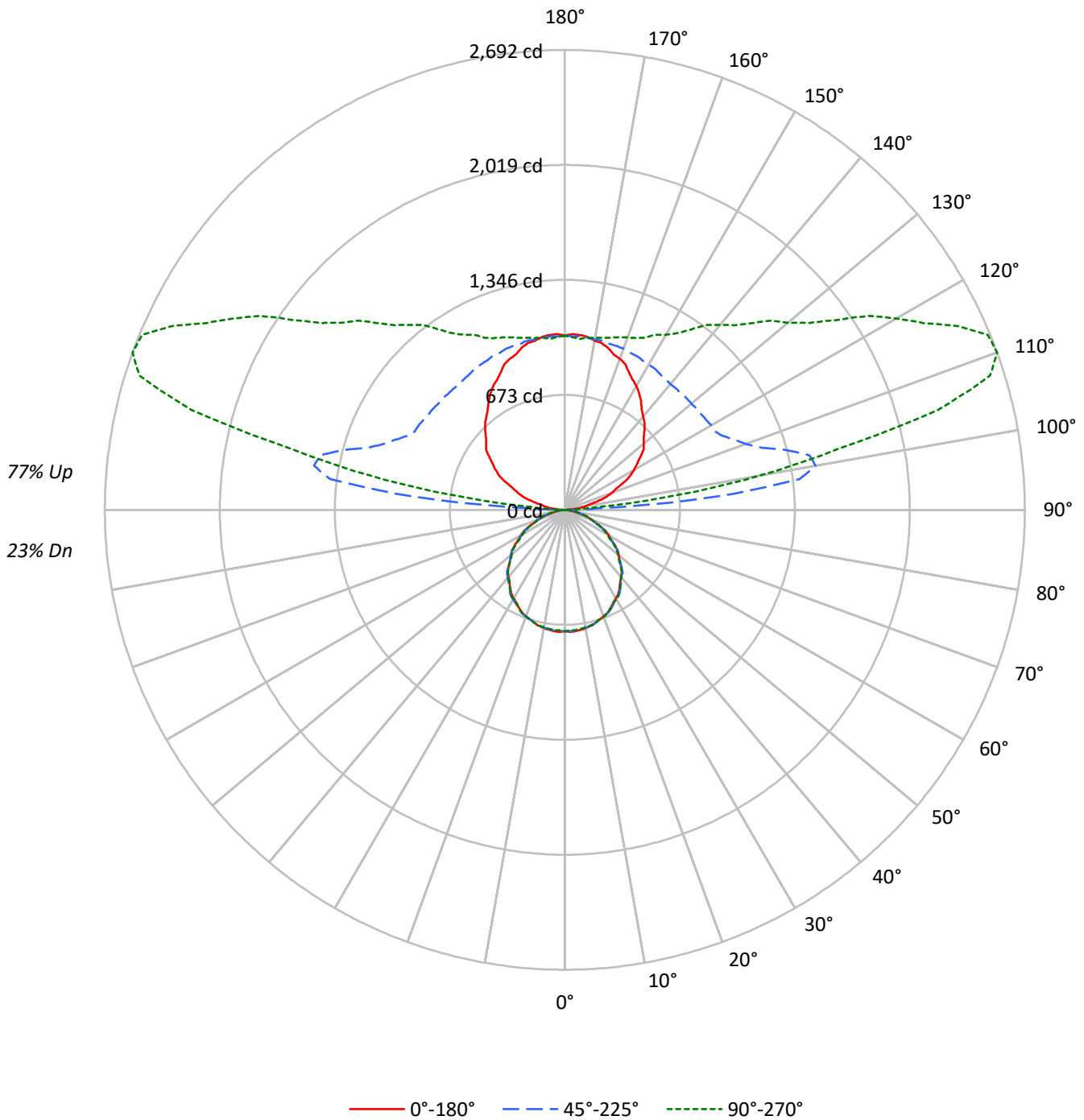
Lumens per Lamp: N/A
Luminaire Lumens: 8272.1 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6558	6558	6558
5°	6608	6565	6540
10°	6592	6561	6542
15°	6557	6557	6551
20°	6513	6533	6533
25°	6452	6499	6479
30°	6374	6451	6423
35°	6279	6375	6331
40°	6175	6263	6199
45°	6063	6106	6011
50°	5905	5905	5810
55°	5717	5643	5558
60°	5442	5331	5246
65°	5030	4929	4886
70°	4402	4437	4421
75°	3543	3918	3943
80°	2518	3321	3358
85°	1535	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	0.8
10°-20°	193.0	2.3
20°-30°	292.3	3.5
30°-40°	350.5	4.2
40°-50°	357.4	4.3
50°-60°	312.0	3.8
60°-70°	223.3	2.7
70°-80°	115.0	1.4
80°-90°	29.1	0.4
90°-100°	464.5	5.6
100°-110°	1321.7	16.0
110°-120°	1266.3	15.3
120°-130°	1002.2	12.1
130°-140°	804.5	9.7
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°	552.7	6.7
0°-40°	903.2	10.9
0°-60°	1572.5	19.0
0°-90°	1940.0	23.5
90°-120°	3052.5	36.9
90°-150°	5489.0	66.4
90°-180°	6332.0	76.5
0°-180°	8272.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	714	706	709	707	706	68
15°	686	681	686	686	686	194
25°	634	629	638	636	636	292
35°	558	556	566	562	562	349
45°	465	463	468	462	461	358
55°	355	351	351	346	346	317
65°	230	225	226	224	224	228
75°	99	104	110	111	111	107
85°	14	22	26	27	26	20
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°	710.8	710.8	710.8	710.8	710.8
2.5°	715.0	708.9	710.8	709.2	706.6
5°	713.5	706.4	708.8	706.9	706.2
7.5°	708.3	701.2	704.5	703.2	702.5
10°	703.6	696.5	700.3	699.0	698.3
12.5°	697.3	690.7	695.0	693.7	693.6
15°	686.5	680.7	686.5	686.5	685.8
17.5°	672.9	667.6	673.8	674.2	673.8
20°	663.4	657.6	665.4	664.8	665.4
22.5°	651.8	647.1	655.4	653.7	654.3
25°	633.8	629.3	638.4	636.4	636.4
27.5°	612.5	609.3	619.2	617.1	617.1
30°	598.3	595.1	605.5	602.9	602.9
32.5°	582.5	580.3	590.2	587.1	587.1
35°	557.5	556.2	566.0	562.1	562.1
37.5°	531.7	530.5	539.4	534.7	533.1
40°	512.7	512.1	520.0	514.7	514.7
42.5°	493.8	493.1	499.9	493.6	493.6
45°	464.7	463.4	468.0	462.0	460.7
47.5°	432.9	431.7	434.5	428.1	427.4
50°	411.4	410.1	411.4	405.4	404.8
52.5°	389.2	386.9	387.1	381.2	381.1
55°	355.4	350.9	350.8	345.5	345.5
57.5°	319.6	313.7	314.2	309.7	309.1
60°	294.9	288.4	288.9	285.0	284.3
62.5°	270.6	263.2	264.7	260.2	260.1
65°	230.4	225.2	225.8	223.8	223.8
67.5°	191.7	186.9	190.3	188.8	188.6
70°	163.2	160.0	164.5	164.5	163.9
72.5°	136.9	136.8	142.4	142.4	142.8
75°	99.4	103.9	109.9	110.6	110.6
77.5°	66.3	74.3	81.0	81.2	81.1
80°	47.4	56.4	62.5	63.8	63.2
82.5°	32.1	41.6	46.7	48.0	47.4
85°	14.5	22.2	26.3	27.0	26.3
87.5°	4.2	8.8	10.5	10.5	9.5
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)