

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: P561726

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561726
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8443.6 lumens
Efficiency: N/A
Efficacy: 117.4 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

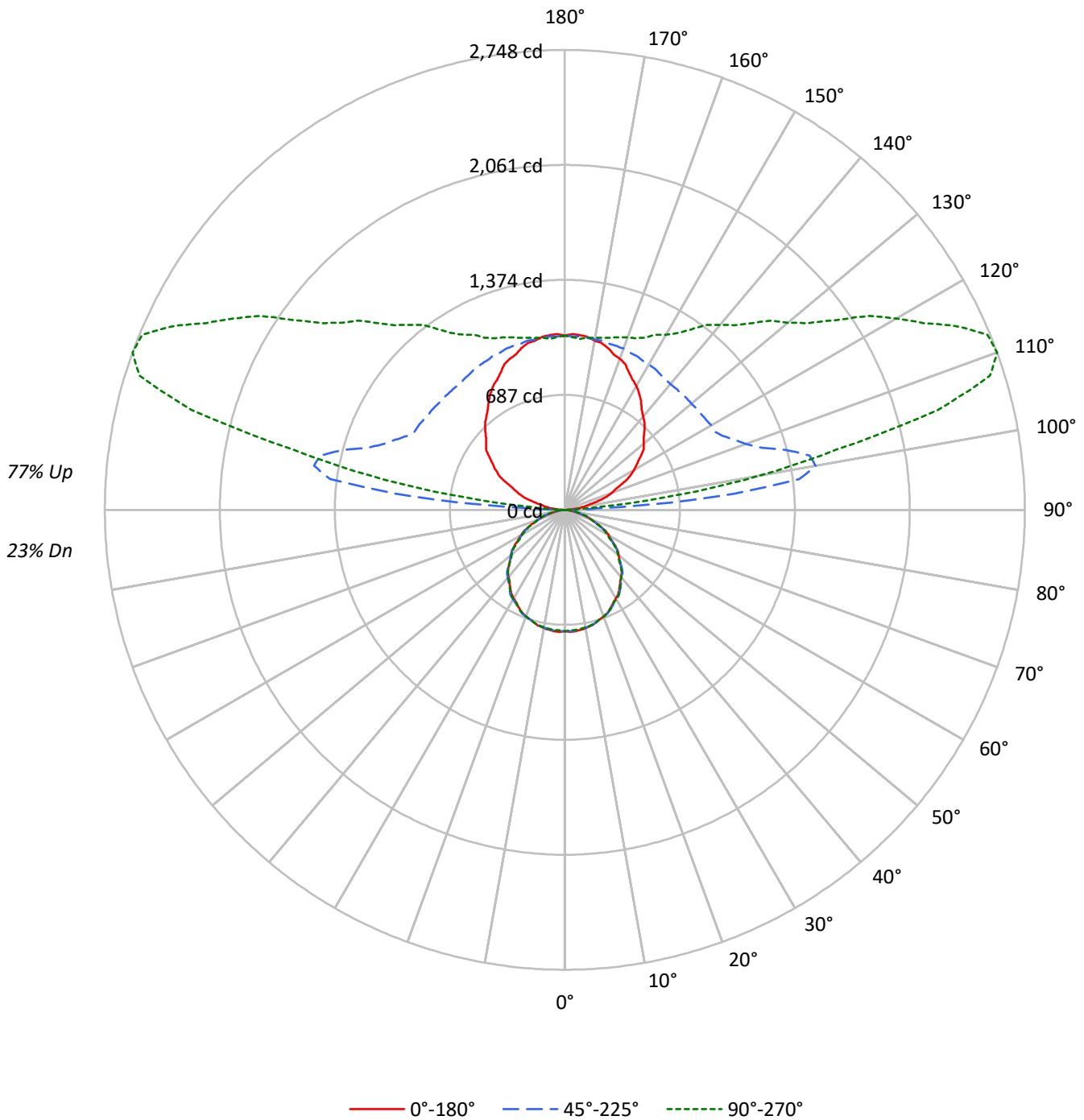
Input Watts (W): 71.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6695	6695	6695
5°	6744	6701	6676
10°	6728	6697	6678
15°	6693	6693	6686
20°	6649	6669	6669
25°	6586	6634	6613
30°	6506	6585	6556
35°	6409	6508	6462
40°	6303	6392	6328
45°	6189	6233	6136
50°	6027	6027	5931
55°	5836	5760	5673
60°	5554	5442	5355
65°	5132	5030	4986
70°	4494	4532	4513
75°	3615	4000	4025
80°	2572	3390	3427
85°	1567	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	0.8
10°-20°	197.1	2.3
20°-30°	298.4	3.5
30°-40°	357.8	4.2
40°-50°	364.8	4.3
50°-60°	318.4	3.8
60°-70°	228.0	2.7
70°-80°	117.4	1.4
80°-90°	29.7	0.4
90°-100°	474.1	5.6
100°-110°	1349.1	16.0
110°-120°	1292.6	15.3
120°-130°	1023.0	12.1
130°-140°	821.1	9.7
140°-150°	642.8	7.6
150°-160°	470.4	5.6
160°-170°	291.4	3.5
170°-180°	98.9	1.2
0°-30°	564.1	6.7
0°-40°	921.9	10.9
0°-60°	1605.1	19.0
0°-90°	1980.2	23.5
90°-120°	3115.8	36.9
90°-150°	5602.8	66.4
90°-180°	6463.0	76.5
0°-180°	8443.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	721	724	722	721	69
15°	701	695	701	701	700	198
25°	647	642	652	650	650	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	323
65°	235	230	230	228	228	233
75°	101	106	112	113	113	110
85°	15	23	27	28	27	20
90°	0	0	0	0	0	3
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.6	725.6	725.6	725.6	725.6
2.5°	729.9	723.5	725.6	723.9	721.3
5°	728.2	721.0	723.5	721.5	720.8
7.5°	723.0	715.8	719.1	717.7	717.1
10°	718.2	710.9	714.8	713.4	712.8
12.5°	711.7	705.0	709.4	708.1	708.0
15°	700.7	694.8	700.7	700.7	700.0
17.5°	686.9	681.5	687.8	688.2	687.8
20°	677.2	671.3	679.2	678.5	679.2
22.5°	665.4	660.5	669.0	667.3	667.9
25°	647.0	642.4	651.7	649.6	649.6
27.5°	625.2	621.9	632.0	629.9	629.9
30°	610.7	607.4	618.1	615.4	615.4
32.5°	594.5	592.3	602.5	599.3	599.3
35°	569.0	567.7	577.8	573.7	573.7
37.5°	542.7	541.5	550.6	545.7	544.2
40°	523.3	522.7	530.7	525.4	525.4
42.5°	504.0	503.3	510.3	503.9	503.9
45°	474.3	473.0	477.7	471.6	470.3
47.5°	441.9	440.6	443.5	436.9	436.3
50°	419.9	418.6	419.9	413.8	413.2
52.5°	397.3	394.9	395.2	389.1	389.0
55°	362.8	358.2	358.1	352.7	352.7
57.5°	326.2	320.2	320.7	316.1	315.5
60°	301.0	294.4	294.9	290.9	290.2
62.5°	276.2	268.6	270.2	265.6	265.5
65°	235.1	229.9	230.4	228.4	228.4
67.5°	195.6	190.8	194.3	192.7	192.5
70°	166.6	163.3	168.0	167.9	167.3
72.5°	139.7	139.6	145.4	145.4	145.8
75°	101.4	106.0	112.2	112.9	112.9
77.5°	67.7	75.9	82.6	82.9	82.8
80°	48.4	57.6	63.8	65.2	64.5
82.5°	32.8	42.5	47.7	49.0	48.4
85°	14.8	22.7	26.9	27.5	26.9
87.5°	4.3	9.0	10.7	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)