

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: P561728

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561728
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

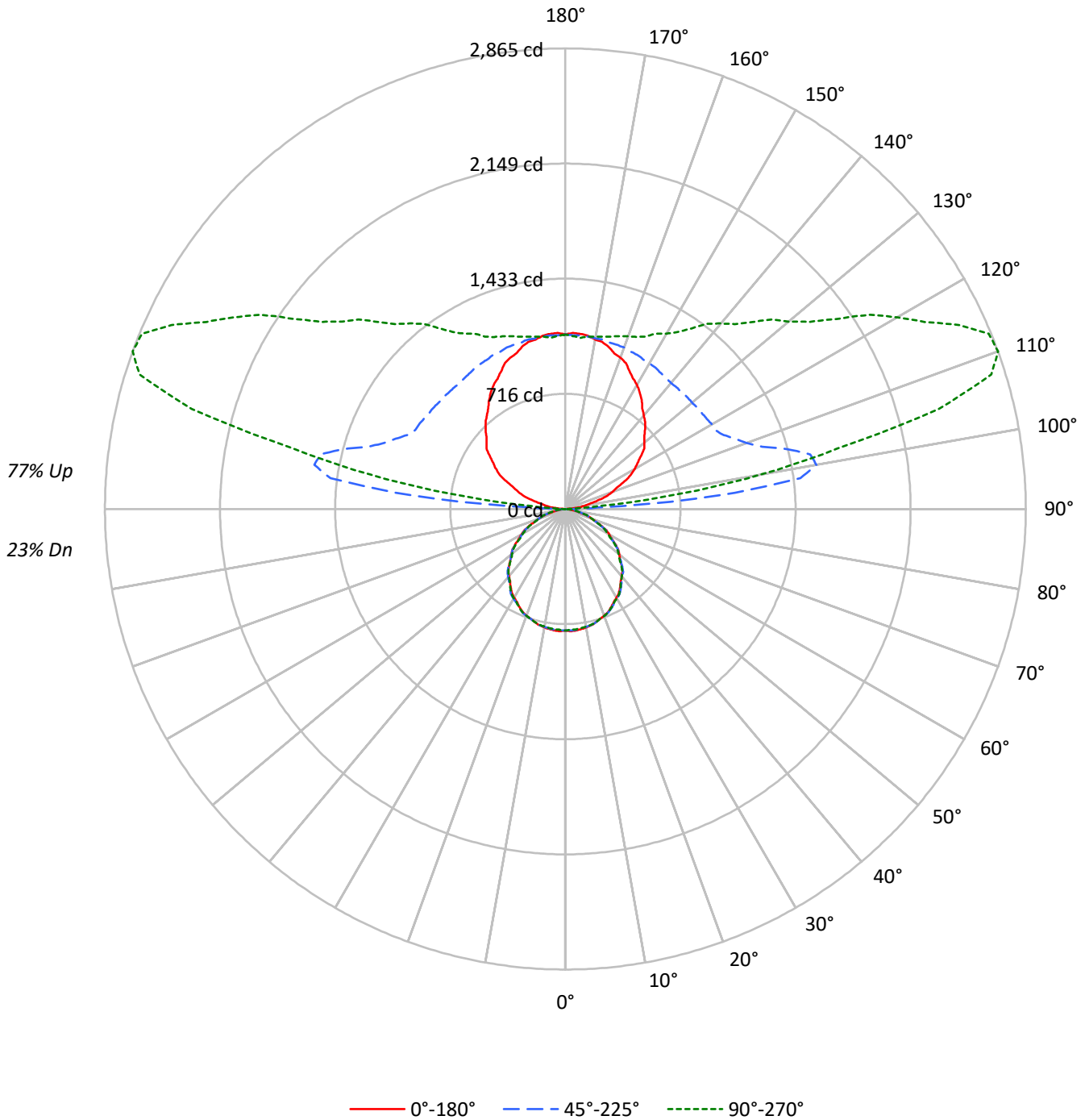
Lumens per Lamp: N/A
Luminaire Lumens: 8804.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.9
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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	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	63	59	53	49	46	38	36	34	25	24	23	17				17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14				14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12				12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10				10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9				9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8				8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7				7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6				6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6				6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6981	6981	6981
5°	7033	6988	6962
10°	7015	6982	6963
15°	6978	6978	6972
20°	6933	6953	6953
25°	6867	6917	6896
30°	6784	6866	6836
35°	6682	6785	6738
40°	6572	6665	6598
45°	6453	6499	6399
50°	6284	6284	6183
55°	6085	6006	5916
60°	5790	5674	5584
65°	5353	5246	5200
70°	4686	4723	4705
75°	3771	4171	4196
80°	2678	3533	3570
85°	1630	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	0.8
10°-20°	205.5	2.3
20°-30°	311.2	3.5
30°-40°	373.0	4.2
40°-50°	380.4	4.3
50°-60°	332.0	3.8
60°-70°	237.7	2.7
70°-80°	122.4	1.4
80°-90°	30.9	0.4
90°-100°	494.4	5.6
100°-110°	1406.7	16.0
110°-120°	1347.8	15.3
120°-130°	1066.7	12.1
130°-140°	856.2	9.7
140°-150°	670.3	7.6
150°-160°	490.5	5.6
160°-170°	303.8	3.5
170°-180°	103.1	1.2
0°-30°	588.2	6.7
0°-40°	961.3	10.9
0°-60°	1673.7	19.0
0°-90°	2064.8	23.5
90°-120°	3249.0	36.9
90°-150°	5842.2	66.4
90°-180°	6740.0	76.6
0°-180°	8804.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	759	752	754	752	752	72
15°	731	724	731	731	730	206
25°	675	670	680	677	677	310
35°	593	592	602	598	598	371
45°	495	493	498	492	490	381
55°	378	374	373	368	368	337
65°	245	240	240	238	238	242
75°	106	111	117	118	118	114
85°	15	24	28	29	28	21
90°	0	0	0	0	0	3
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.6	756.6	756.6	756.6	756.6
2.5°	761.0	754.5	756.6	754.8	752.1
5°	759.4	751.8	754.5	752.3	751.7
7.5°	753.9	746.4	749.8	748.4	747.7
10°	748.8	741.3	745.3	743.9	743.2
12.5°	742.1	735.1	739.7	738.3	738.2
15°	730.6	724.5	730.6	730.6	729.9
17.5°	716.2	710.6	717.2	717.6	717.2
20°	706.1	700.0	708.2	707.5	708.2
22.5°	693.8	688.7	697.6	695.8	696.5
25°	674.6	669.8	679.5	677.4	677.4
27.5°	651.9	648.5	659.0	656.8	656.8
30°	636.8	633.3	644.5	641.7	641.7
32.5°	620.0	617.6	628.2	624.9	624.9
35°	593.3	592.0	602.4	598.2	598.2
37.5°	565.9	564.6	574.1	569.1	567.4
40°	545.7	545.0	553.4	547.8	547.8
42.5°	525.5	524.8	532.1	525.4	525.4
45°	494.6	493.2	498.1	491.7	490.4
47.5°	460.8	459.4	462.5	455.6	454.9
50°	437.8	436.5	437.8	431.5	430.8
52.5°	414.3	411.8	412.0	405.7	405.6
55°	378.3	373.5	373.4	367.8	367.8
57.5°	340.2	333.9	334.4	329.6	329.0
60°	313.8	307.0	307.5	303.3	302.6
62.5°	288.1	280.1	281.7	277.0	276.8
65°	245.2	239.7	240.3	238.2	238.2
67.5°	204.0	198.9	202.6	200.9	200.8
70°	173.7	170.3	175.1	175.1	174.4
72.5°	145.7	145.6	151.6	151.6	152.0
75°	105.8	110.6	117.0	117.7	117.7
77.5°	70.6	79.1	86.2	86.4	86.3
80°	50.4	60.0	66.5	67.9	67.2
82.5°	34.2	44.3	49.7	51.1	50.4
85°	15.4	23.6	28.0	28.7	28.0
87.5°	4.5	9.4	11.2	11.2	10.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)