

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: P561653

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561653
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-PC3-100U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

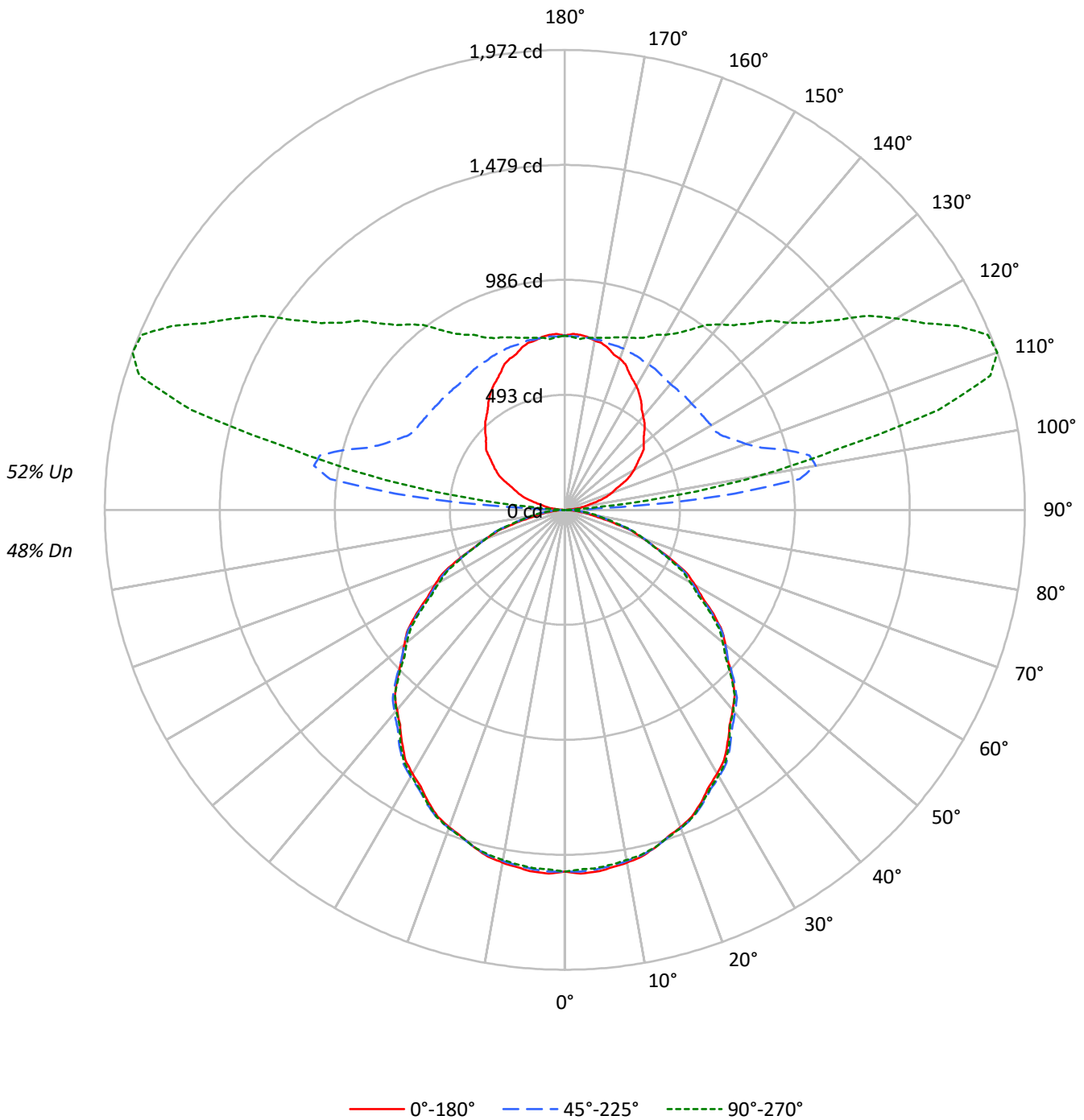
Lumens per Lamp: N/A
Luminaire Lumens: 8875.4 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14319	14319	14319
5°	14427	14334	14281
10°	14392	14324	14284
15°	14317	14317	14303
20°	14223	14265	14265
25°	14088	14191	14146
30°	13917	14085	14024
35°	13709	13920	13823
40°	13483	13673	13535
45°	13238	13332	13125
50°	12892	12892	12686
55°	12482	12321	12136
60°	11880	11642	11455
65°	10981	10761	10667
70°	9614	9692	9652
75°	7735	8555	8605
80°	5499	7252	7332
85°	3345	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.7
10°-20°	421.5	4.7
20°-30°	638.3	7.2
30°-40°	765.3	8.6
40°-50°	780.3	8.8
50°-60°	681.2	7.7
60°-70°	487.7	5.5
70°-80°	251.2	2.8
80°-90°	63.5	0.7
90°-100°	340.3	3.8
100°-110°	968.4	10.9
110°-120°	927.8	10.5
120°-130°	734.4	8.3
130°-140°	589.4	6.6
140°-150°	461.5	5.2
150°-160°	337.6	3.8
160°-170°	209.1	2.4
170°-180°	71.0	0.8
0°-30°	1206.7	13.6
0°-40°	1972.0	22.2
0°-60°	3433.5	38.7
0°-90°	4235.8	47.7
90°-120°	2236.6	25.2
90°-150°	4021.8	45.3
90°-180°	4640.0	52.3
0°-180°	8875.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1558	1542	1548	1543	1542	148
15°	1499	1486	1499	1499	1497	423
25°	1384	1374	1394	1390	1390	637
35°	1217	1214	1236	1227	1227	761
45°	1015	1012	1022	1009	1006	781
55°	776	766	766	754	754	692
65°	503	492	493	489	489	497
75°	217	227	240	241	241	235
85°	32	48	58	59	58	43
90°	0	0	0	0	0	3
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

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CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.0	1552.0	1552.0	1552.0	1552.0
2.5°	1561.2	1547.7	1552.0	1548.5	1542.8
5°	1557.8	1542.3	1547.7	1543.4	1542.0
7.5°	1546.6	1531.1	1538.2	1535.3	1533.9
10°	1536.2	1520.8	1529.0	1526.1	1524.7
12.5°	1522.4	1508.1	1517.5	1514.7	1514.4
15°	1498.9	1486.2	1498.9	1498.8	1497.4
17.5°	1469.3	1457.7	1471.3	1472.1	1471.3
20°	1448.6	1435.9	1452.9	1451.5	1452.9
22.5°	1423.3	1412.9	1431.0	1427.3	1428.7
25°	1383.9	1374.1	1394.0	1389.6	1389.6
27.5°	1337.3	1330.3	1352.0	1347.4	1347.4
30°	1306.3	1299.3	1322.1	1316.4	1316.4
32.5°	1271.8	1267.0	1288.8	1281.9	1281.9
35°	1217.2	1214.4	1235.9	1227.3	1227.3
37.5°	1160.9	1158.3	1177.8	1167.4	1164.0
40°	1119.5	1118.1	1135.3	1123.8	1123.8
42.5°	1078.1	1076.7	1091.6	1077.8	1077.8
45°	1014.6	1011.8	1021.8	1008.8	1005.9
47.5°	945.3	942.5	948.8	934.6	933.2
50°	898.2	895.4	898.2	885.2	883.8
52.5°	849.9	844.8	845.3	832.3	832.1
55°	776.0	766.2	766.0	754.5	754.5
57.5°	697.8	684.9	686.1	676.3	674.8
60°	643.8	629.8	630.9	622.2	620.8
62.5°	590.9	574.6	578.0	568.2	567.9
65°	503.0	491.7	492.9	488.6	488.6
67.5°	418.5	408.1	415.6	412.1	411.9
70°	356.4	349.4	359.3	359.2	357.8
72.5°	298.9	298.6	311.0	311.0	311.8
75°	217.0	226.8	240.0	241.4	241.4
77.5°	144.9	162.3	176.8	177.3	177.0
80°	103.5	123.1	136.5	139.4	138.0
82.5°	70.1	90.9	102.0	104.9	103.5
85°	31.6	48.5	57.5	58.9	57.5
87.5°	9.2	19.3	23.0	22.9	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)