

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: P561549

Luminaire Tested: **SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561549
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-PC3-075U-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 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

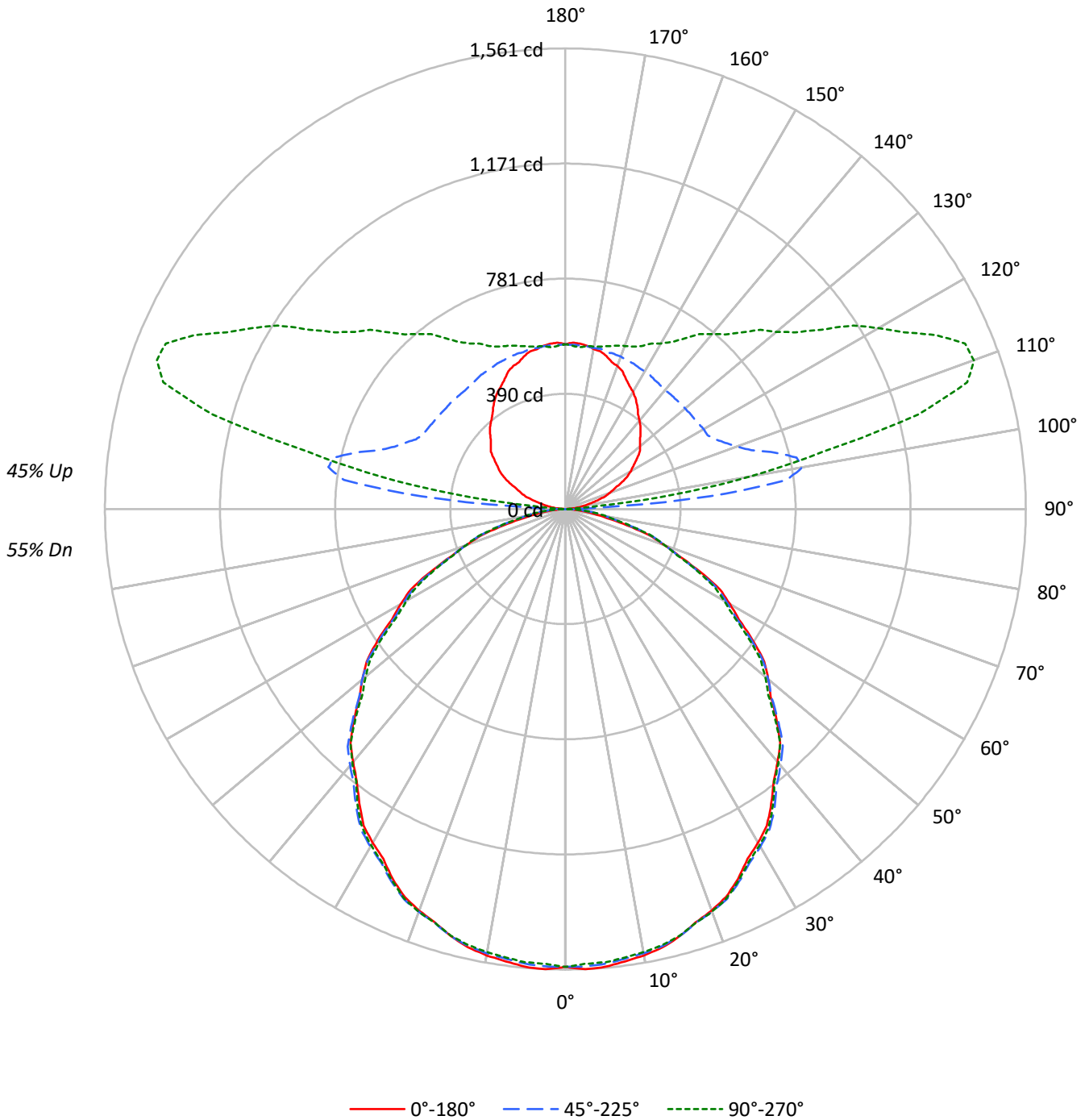
Lumens per Lamp: N/A
Luminaire Lumens: 7702.7 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	46				
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

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	1.9
10°-20°	421.5	5.5
20°-30°	638.3	8.3
30°-40°	765.3	9.9
40°-50°	780.3	10.1
50°-60°	681.2	8.8
60°-70°	487.7	6.3
70°-80°	251.2	3.3
80°-90°	63.5	0.8
90°-100°	254.3	3.3
100°-110°	723.6	9.4
110°-120°	693.3	9.0
120°-130°	548.7	7.1
130°-140°	440.5	5.7
140°-150°	344.8	4.5
150°-160°	252.3	3.3
160°-170°	156.3	2.0
170°-180°	53.0	0.7
0°-30°	1206.7	15.7
0°-40°	1972.0	25.6
0°-60°	3433.5	44.6
0°-90°	4235.8	55.0
90°-120°	1671.3	21.7
90°-150°	3005.3	39.0
90°-180°	3467.0	45.0
0°-180°	7702.7	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	2
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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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°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)