

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: P561492

Luminaire Tested: **SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561492
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-PC3-050U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

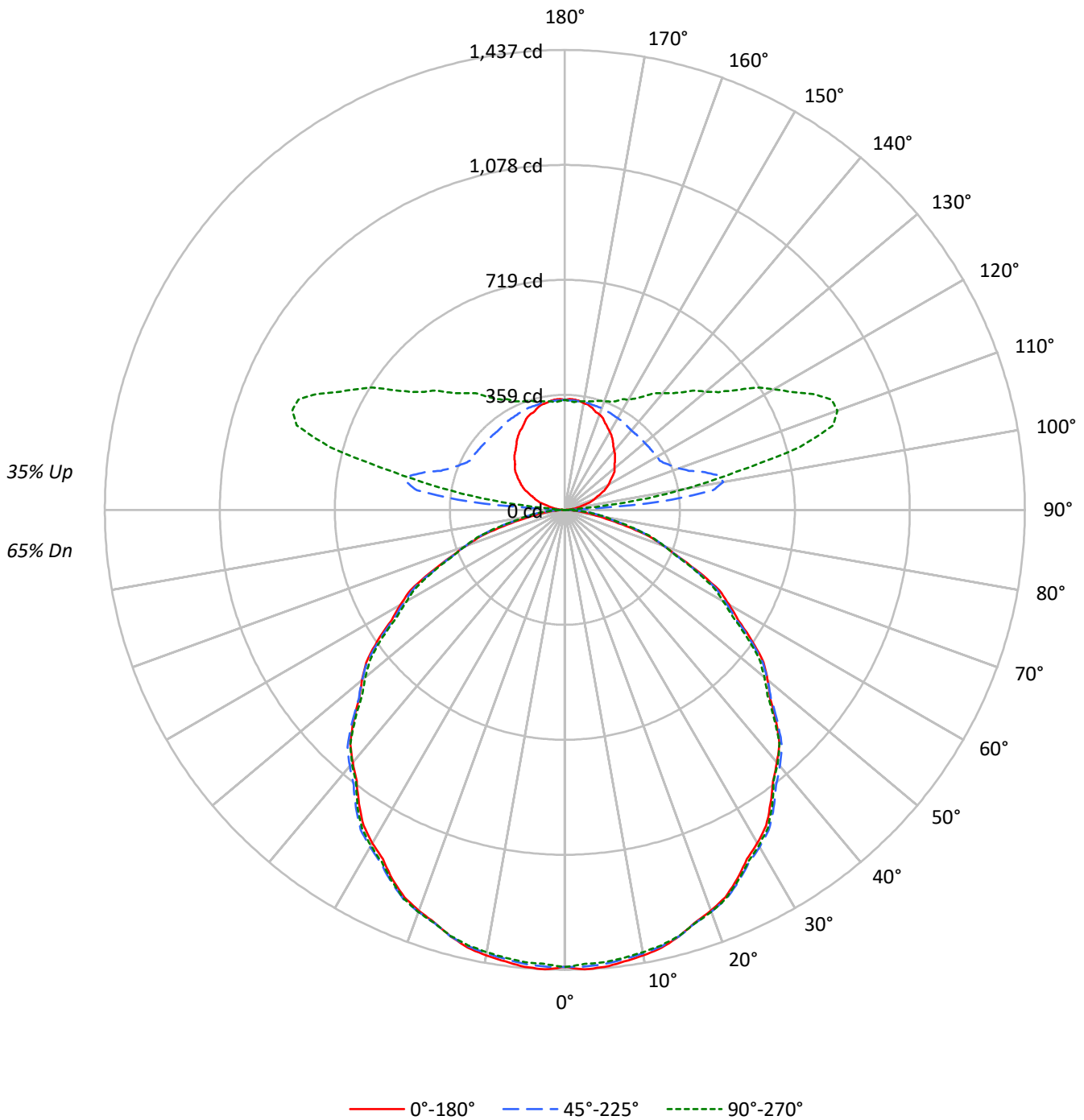
Lumens per Lamp: N/A
Luminaire Lumens: 6030.1 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.2
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65
1	101	97	93	89	95	91	88	85	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	71	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13278	13193	13144
10°	13246	13184	13147
15°	13177	13177	13164
20°	13090	13129	13129
25°	12966	13060	13020
30°	12809	12963	12907
35°	12618	12811	12722
40°	12409	12585	12457
45°	12184	12270	12080
50°	11865	11865	11675
55°	11488	11340	11170
60°	10933	10713	10544
65°	10106	9905	9817
70°	8848	8921	8883
75°	7119	7874	7921
80°	5058	6673	6748
85°	3080	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	2.2
10°-20°	387.9	6.4
20°-30°	587.5	9.7
30°-40°	704.3	11.7
40°-50°	718.2	11.9
50°-60°	626.9	10.4
60°-70°	448.8	7.4
70°-80°	231.2	3.8
80°-90°	58.5	1.0
90°-100°	156.4	2.6
100°-110°	444.9	7.4
110°-120°	426.3	7.1
120°-130°	337.4	5.6
130°-140°	270.8	4.5
140°-150°	212.0	3.5
150°-160°	155.1	2.6
160°-170°	96.1	1.6
170°-180°	32.6	0.5
0°-30°	1110.6	18.4
0°-40°	1814.9	30.1
0°-60°	3160.0	52.4
0°-90°	3898.5	64.7
90°-120°	1027.6	17.0
90°-150°	1847.8	30.6
90°-180°	2132.0	35.4
0°-180°	6030.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1434	1420	1424	1420	1419	136
15°	1380	1368	1380	1380	1378	389
25°	1274	1265	1283	1279	1279	586
35°	1120	1118	1137	1130	1130	701
45°	934	931	940	928	926	719
55°	714	705	705	694	694	637
65°	463	453	454	450	450	458
75°	200	209	221	222	222	216
85°	29	45	53	54	53	40
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

TEST NUMBER: P561492

CATALOG NUMBER: SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.4	1428.4	1428.4	1428.4	1428.4
2.5°	1436.9	1424.5	1428.4	1425.1	1420.0
5°	1433.7	1419.5	1424.5	1420.5	1419.2
7.5°	1423.4	1409.2	1415.7	1413.1	1411.8
10°	1413.9	1399.7	1407.3	1404.6	1403.3
12.5°	1401.2	1388.0	1396.7	1394.0	1393.8
15°	1379.5	1367.8	1379.5	1379.5	1378.2
17.5°	1352.2	1341.6	1354.1	1354.9	1354.1
20°	1333.2	1321.6	1337.2	1335.9	1337.2
22.5°	1309.9	1300.3	1317.1	1313.7	1314.9
25°	1273.7	1264.6	1282.9	1279.0	1279.0
27.5°	1230.8	1224.4	1244.3	1240.1	1240.1
30°	1202.3	1195.8	1216.8	1211.5	1211.5
32.5°	1170.5	1166.1	1186.1	1179.8	1179.8
35°	1120.3	1117.7	1137.4	1129.5	1129.5
37.5°	1068.4	1066.1	1084.0	1074.4	1071.3
40°	1030.3	1029.0	1044.9	1034.3	1034.3
42.5°	992.2	990.9	1004.7	992.0	992.0
45°	933.8	931.2	940.4	928.4	925.8
47.5°	870.0	867.4	873.2	860.2	858.9
50°	826.6	824.0	826.6	814.7	813.4
52.5°	782.2	777.5	778.0	766.1	765.8
55°	714.2	705.2	705.0	694.4	694.4
57.5°	642.3	630.4	631.4	622.4	621.1
60°	592.5	579.6	580.6	572.7	571.4
62.5°	543.9	528.9	532.0	523.0	522.7
65°	462.9	452.6	453.7	449.7	449.7
67.5°	385.1	375.6	382.5	379.3	379.1
70°	328.0	321.5	330.7	330.6	329.3
72.5°	275.1	274.8	286.2	286.2	287.0
75°	199.7	208.8	220.9	222.2	222.2
77.5°	133.3	149.4	162.7	163.2	162.9
80°	95.2	113.3	125.6	128.3	127.0
82.5°	64.5	83.7	93.9	96.5	95.2
85°	29.1	44.6	52.9	54.2	52.9
87.5°	8.5	17.8	21.2	21.1	19.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)