

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: P561648

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561648
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

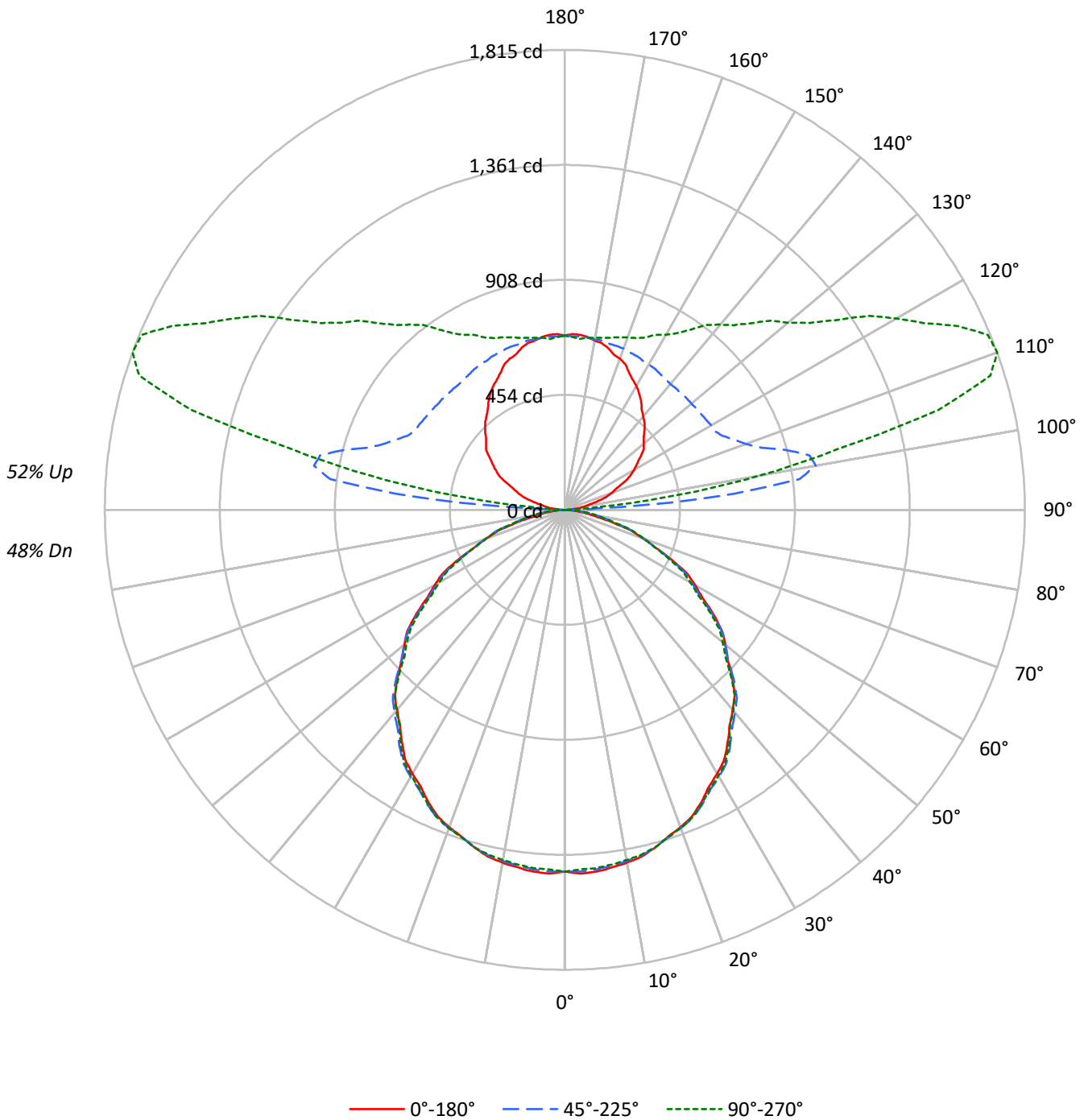
Lumens per Lamp: N/A
Luminaire Lumens: 8168.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.8
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°	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	1.7
10°-20°	387.9	4.7
20°-30°	587.5	7.2
30°-40°	704.3	8.6
40°-50°	718.2	8.8
50°-60°	626.9	7.7
60°-70°	448.8	5.5
70°-80°	231.2	2.8
80°-90°	58.5	0.7
90°-100°	313.2	3.8
100°-110°	891.3	10.9
110°-120°	853.9	10.5
120°-130°	675.9	8.3
130°-140°	542.5	6.6
140°-150°	424.7	5.2
150°-160°	310.7	3.8
160°-170°	192.5	2.4
170°-180°	65.3	0.8
0°-30°	1110.6	13.6
0°-40°	1814.9	22.2
0°-60°	3160.0	38.7
0°-90°	3898.5	47.7
90°-120°	2058.5	25.2
90°-150°	3701.5	45.3
90°-180°	4270.0	52.3
0°-180°	8168.5	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	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	



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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°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)