

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: P562962

Luminaire Tested: **SQ4-PC3-100U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562962
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

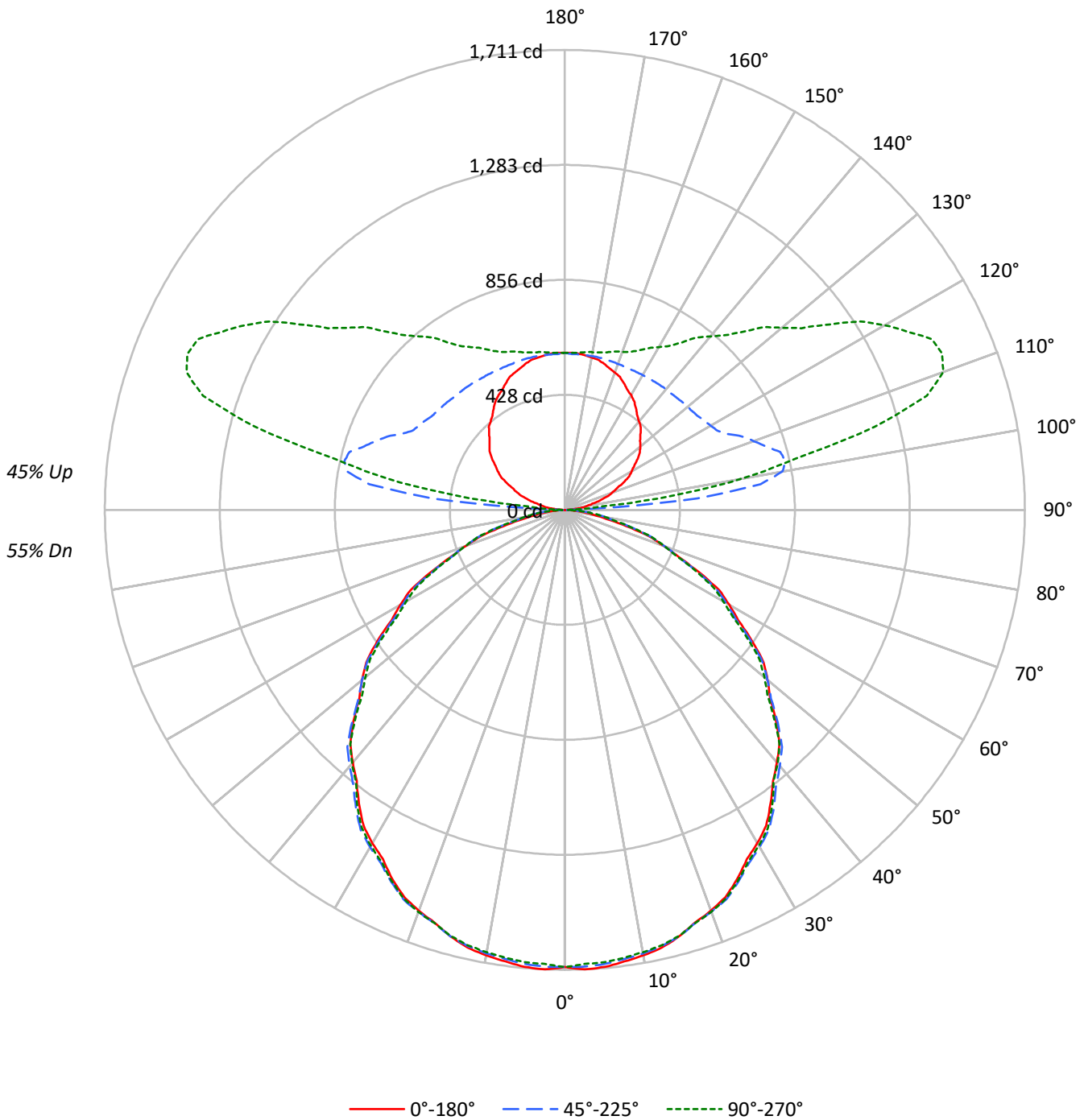
Lumens per Lamp: N/A
Luminaire Lumens: 8434.4 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	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	25	32	26	22	28	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°	15694	15694	15694
5°	15812	15709	15651
10°	15773	15700	15655
15°	15691	15691	15675
20°	15588	15634	15634
25°	15440	15552	15504
30°	15252	15437	15370
35°	15025	15256	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14128	14128	13903
55°	13681	13504	13301
60°	13020	12758	12555
65°	12033	11793	11691
70°	10537	10620	10580
75°	8477	9375	9432
80°	6025	7948	8033
85°	3663	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.9
10°-20°	462.0	5.5
20°-30°	699.6	8.3
30°-40°	838.7	9.9
40°-50°	855.2	10.1
50°-60°	746.5	8.9
60°-70°	534.4	6.3
70°-80°	275.3	3.3
80°-90°	70.8	0.8
90°-100°	273.2	3.2
100°-110°	754.3	8.9
110°-120°	777.9	9.2
120°-130°	625.1	7.4
130°-140°	491.3	5.8
140°-150°	376.8	4.5
150°-160°	270.8	3.2
160°-170°	165.6	2.0
170°-180°	55.8	0.7
0°-30°	1322.5	15.7
0°-40°	2161.2	25.6
0°-60°	3762.9	44.6
0°-90°	4643.4	55.1
90°-120°	1805.5	21.4
90°-150°	3298.7	39.1
90°-180°	3791.0	44.9
0°-180°	8434.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1690	1696	1692	1690	162
15°	1643	1629	1643	1643	1641	463
25°	1517	1506	1528	1523	1523	698
35°	1334	1331	1354	1345	1345	834
45°	1112	1109	1120	1106	1102	856
55°	850	840	840	827	827	758
65°	551	539	540	536	536	545
75°	238	249	263	265	265	257
85°	35	53	63	64	63	47
90°	2	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1711.0	1696.3	1701.0	1697.0	1690.9
5°	1707.3	1690.3	1696.2	1691.5	1689.9
7.5°	1695.0	1678.0	1685.8	1682.7	1681.1
10°	1683.6	1666.7	1675.8	1672.6	1671.0
12.5°	1668.5	1652.8	1663.2	1660.0	1659.7
15°	1642.7	1628.8	1642.7	1642.6	1641.1
17.5°	1610.2	1597.6	1612.4	1613.4	1612.4
20°	1587.6	1573.7	1592.3	1590.7	1592.3
22.5°	1559.8	1548.4	1568.3	1564.3	1565.8
25°	1516.7	1505.9	1527.7	1523.0	1523.0
27.5°	1465.7	1458.0	1481.7	1476.7	1476.7
30°	1431.6	1423.9	1449.0	1442.7	1442.7
32.5°	1393.8	1388.6	1412.4	1404.9	1404.9
35°	1334.0	1330.9	1354.5	1345.0	1345.0
37.5°	1272.3	1269.5	1290.8	1279.4	1275.7
40°	1226.9	1225.4	1244.2	1231.6	1231.6
42.5°	1181.5	1180.0	1196.3	1181.2	1181.2
45°	1111.9	1108.8	1119.8	1105.6	1102.5
47.5°	1036.0	1032.9	1039.8	1024.3	1022.8
50°	984.3	981.3	984.3	970.1	968.6
52.5°	931.4	925.9	926.4	912.2	911.9
55°	850.5	839.7	839.5	826.9	826.9
57.5°	764.8	750.6	751.9	741.1	739.6
60°	705.6	690.2	691.4	681.9	680.4
62.5°	647.6	629.8	633.4	622.7	622.4
65°	551.2	538.9	540.2	535.5	535.5
67.5°	458.6	447.2	455.5	451.7	451.4
70°	390.6	382.9	393.7	393.7	392.2
72.5°	327.6	327.3	340.8	340.8	341.8
75°	237.8	248.6	263.0	264.6	264.6
77.5°	158.8	177.9	193.7	194.3	194.0
80°	113.4	135.0	149.6	152.7	151.2
82.5°	76.9	99.6	111.8	114.9	113.4
85°	34.6	53.1	63.0	64.5	63.0
87.5°	10.5	21.9	26.7	26.8	24.5
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)