

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: P562866

Luminaire Tested: **SQ4-PC3-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562866
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

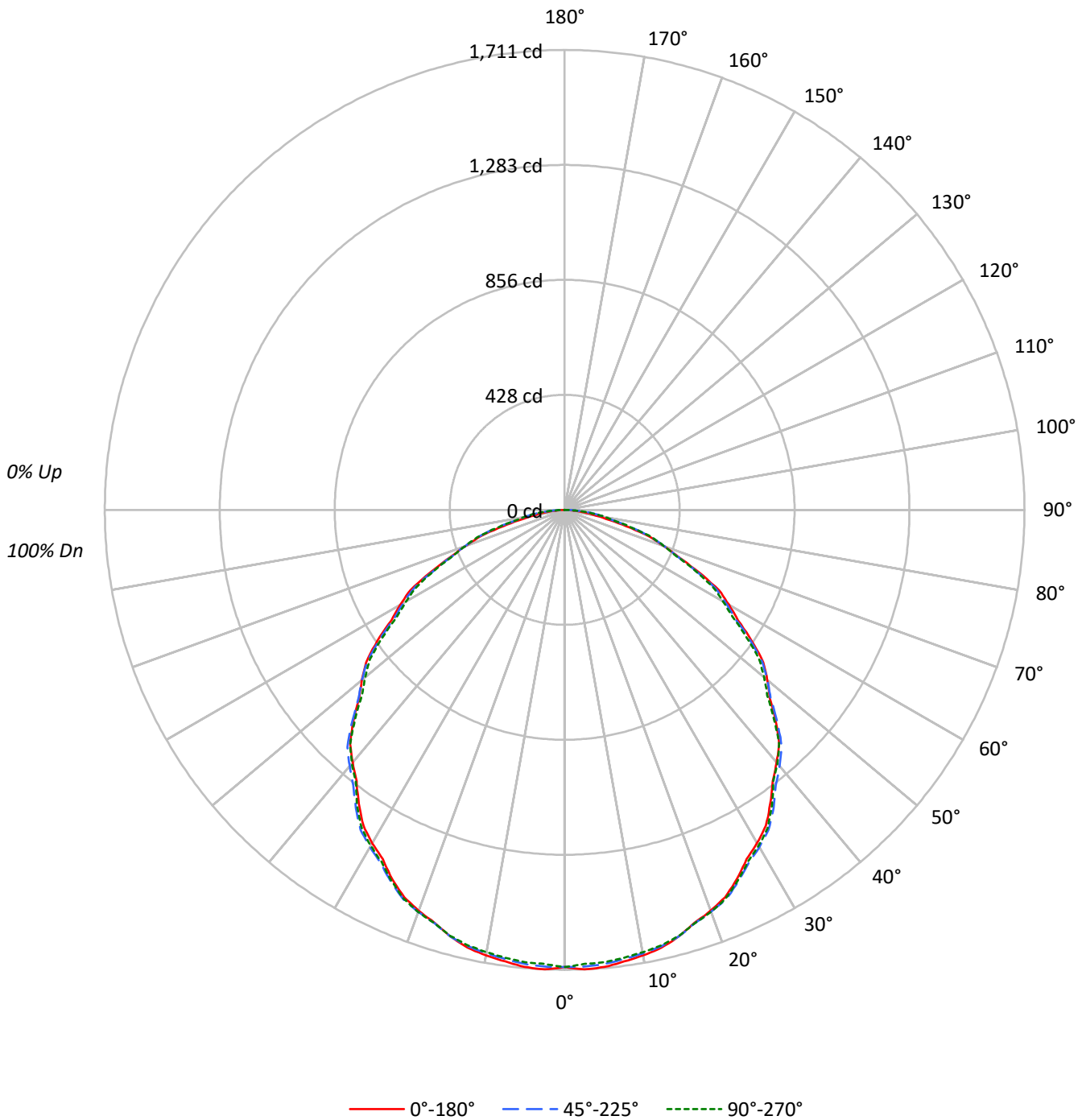
Lumens per Lamp: N/A
Luminaire Lumens: 4642.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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	3.5
10°-20°	462.0	10.0
20°-30°	699.6	15.1
30°-40°	838.7	18.1
40°-50°	855.2	18.4
50°-60°	746.5	16.1
60°-70°	534.4	11.5
70°-80°	275.3	5.9
80°-90°	69.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1322.5	28.5
0°-40°	2161.2	46.6
0°-60°	3762.9	81.1
0°-90°	4642.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4642.2	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	48
90°	0	0	0	0	0	



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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°	10.1	21.2	25.2	25.1	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)