

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: P562674

Luminaire Tested: **SQ4-PC3-050U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

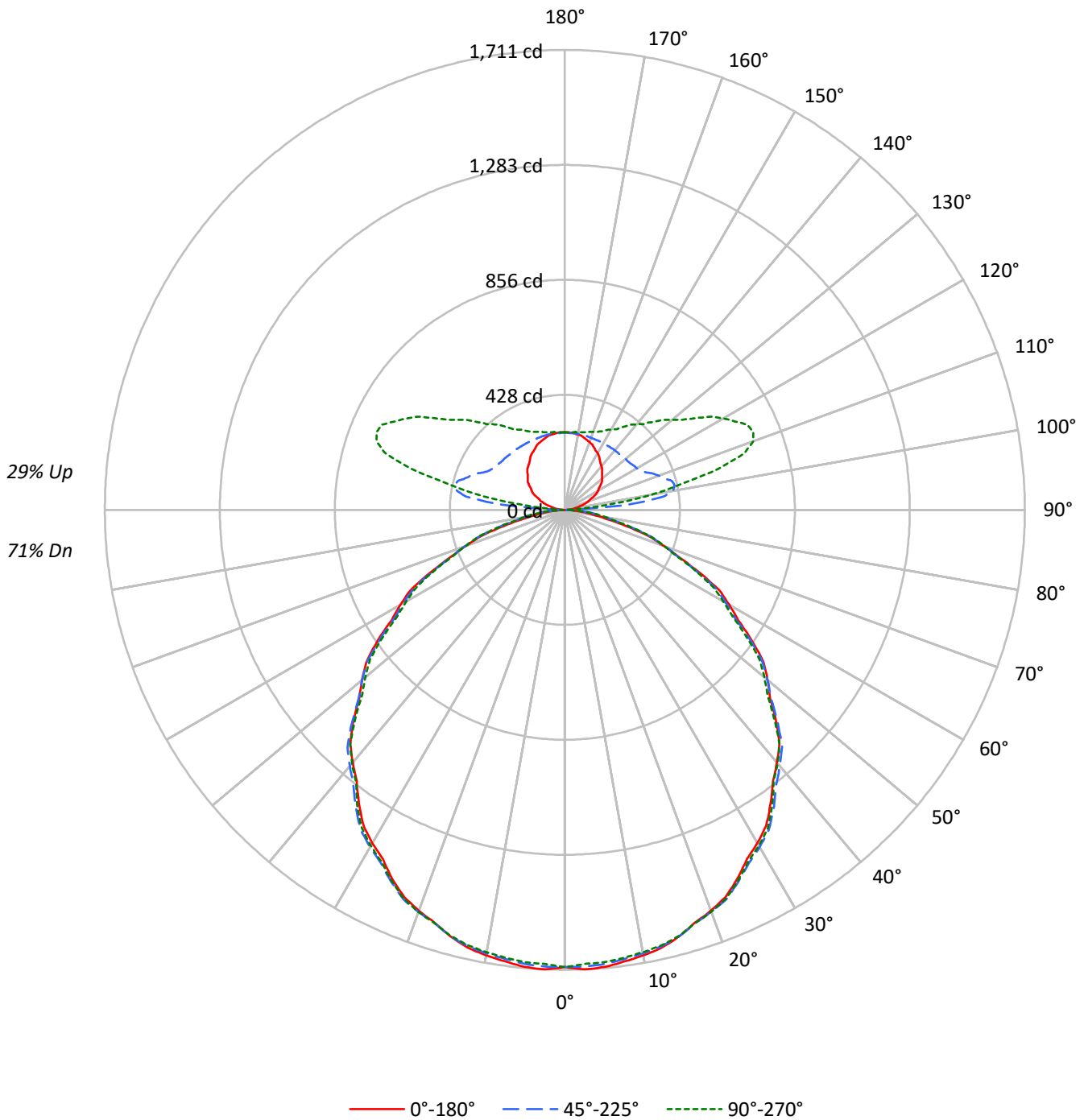
Lumens per Lamp: N/A
Luminaire Lumens: 6523.4 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

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	2.5
10°-20°	462.0	7.1
20°-30°	699.6	10.7
30°-40°	838.7	12.9
40°-50°	855.2	13.1
50°-60°	746.5	11.4
60°-70°	534.4	8.2
70°-80°	275.3	4.2
80°-90°	70.7	1.1
90°-100°	138.2	2.1
100°-110°	375.5	5.8
110°-120°	386.1	5.9
120°-130°	308.7	4.7
130°-140°	242.5	3.7
140°-150°	186.0	2.9
150°-160°	133.7	2.1
160°-170°	81.8	1.3
170°-180°	27.6	0.4
0°-30°	1322.5	20.3
0°-40°	2161.2	33.1
0°-60°	3762.9	57.7
0°-90°	4643.3	71.2
90°-120°	899.8	13.8
90°-150°	1637.0	25.1
90°-180°	1880.0	28.8
0°-180°	6523.4	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°	1	4	6	8	8	3
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	



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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°	10.3	21.9	26.5	26.8	24.3
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>103.1</i>	131.6	353.5	691.1	757.9
115°	<i>118.5</i>	143.9	330.5	657.6	749.1
117.5°	<i>133.0</i>	157.2	315.9	610.1	713.1
120°	<i>142.6</i>	166.1	309.3	578.2	680.5
122.5°	<i>150.7</i>	174.3	304.8	546.3	645.0
125°	<i>163.0</i>	185.6	299.1	503.9	594.4
127.5°	<i>173.9</i>	196.3	295.9	471.8	549.4
130°	<i>180.6</i>	202.3	294.4	451.6	521.3
132.5°	<i>187.2</i>	208.9	293.0	434.4	496.1
135°	<i>196.3</i>	218.0	290.7	410.4	463.0
137.5°	<i>206.1</i>	225.8	289.6	389.3	433.5
140°	<i>212.0</i>	231.0	288.9	375.9	415.7
142.5°	<i>218.0</i>	235.5	288.1	365.4	398.7
145°	<i>226.8</i>	243.1	287.0	348.7	375.0
147.5°	<i>236.8</i>	250.8	286.1	335.6	356.3
150°	<i>243.5</i>	255.3	286.1	328.1	344.4
152.5°	<i>248.7</i>	259.0	285.4	321.4	334.8
155°	<i>256.5</i>	265.5	285.2	313.2	322.2
157.5°	<i>264.1</i>	271.1	285.2	307.6	314.4
160°	<i>268.5</i>	274.9	285.2	303.8	309.3
162.5°	<i>273.0</i>	277.8	285.9	300.8	304.8
165°	<i>277.8</i>	281.4	286.1	298.2	299.1
167.5°	<i>282.8</i>	284.6	287.0	295.0	295.7
170°	<i>284.3</i>	286.1	287.0	293.5	293.5
172.5°	<i>285.7</i>	286.8	287.0	292.0	292.0
175°	<i>288.0</i>	288.9	287.0	290.7	289.8
177.5°	<i>288.7</i>	288.7	286.5	289.4	288.0
180°	<i>288.0</i>	288.0	288.0	288.0	288.0

(END OF REPORT)