

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: P562505

Luminaire Tested: **SQ4-PC3-025U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562505
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

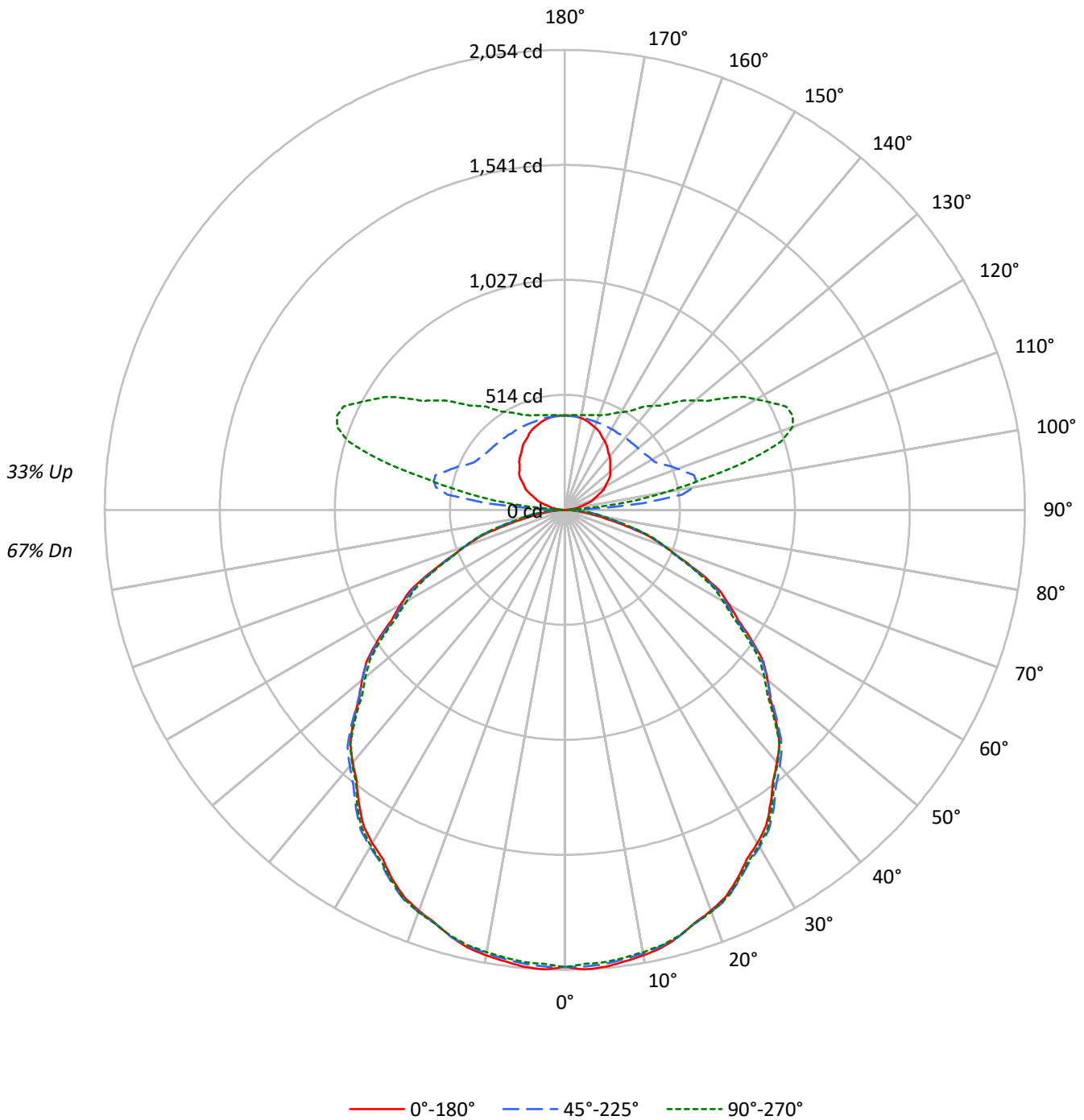
Lumens per Lamp: N/A
Luminaire Lumens: 8310.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 68.8
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57				
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40				
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34				
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30				
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23				
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19				
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6280	6280	6280
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6104	6062
40°	5913	5996	5936
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5023
65°	4815	4719	4678
70°	4216	4250	4233
75°	3392	3751	3774
80°	2410	3181	3214
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	2.3
10°-20°	554.5	6.7
20°-30°	839.8	10.1
30°-40°	1006.8	12.1
40°-50°	1026.6	12.4
50°-60°	896.1	10.8
60°-70°	641.6	7.7
70°-80°	330.4	4.0
80°-90°	85.8	1.0
90°-100°	205.7	2.5
100°-110°	540.7	6.5
110°-120°	560.7	6.7
120°-130°	449.7	5.4
130°-140°	352.9	4.2
140°-150°	270.8	3.3
150°-160°	195.1	2.3
160°-170°	119.3	1.4
170°-180°	40.3	0.5
0°-30°	1587.6	19.1
0°-40°	2594.4	31.2
0°-60°	4517.1	54.4
0°-90°	5574.9	67.1
90°-120°	1307.0	15.7
90°-150°	2380.4	28.6
90°-180°	2735.0	32.9
0°-180°	8310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2049	2029	2036	2030	2029	195
15°	1972	1955	1972	1972	1970	556
25°	1821	1808	1834	1828	1828	838
35°	1601	1598	1626	1615	1615	1001
45°	1335	1331	1344	1327	1323	1027
55°	1021	1008	1008	993	993	910
65°	662	647	648	643	643	654
75°	286	298	316	318	318	309
85°	42	64	76	78	76	57
90°	3	8	22	11	11	4
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.9	2041.9	2041.9	2041.9	2041.9
2.5°	2054.0	2036.2	2041.9	2037.2	2029.8
5°	2049.4	2029.1	2036.2	2030.5	2028.6
7.5°	2034.7	2014.3	2023.7	2019.9	2018.0
10°	2021.1	2000.7	2011.6	2007.8	2005.9
12.5°	2002.9	1984.1	1996.5	1992.7	1992.3
15°	1971.9	1955.3	1971.9	1971.9	1970.0
17.5°	1933.0	1917.8	1935.6	1936.7	1935.6
20°	1905.7	1889.1	1911.4	1909.6	1911.4
22.5°	1872.5	1858.8	1882.7	1877.8	1879.6
25°	1820.7	1807.7	1833.9	1828.2	1828.2
27.5°	1759.4	1750.2	1778.7	1772.6	1772.6
30°	1718.6	1709.3	1739.4	1731.8	1731.8
32.5°	1673.2	1666.9	1695.5	1686.4	1686.4
35°	1601.4	1597.7	1625.9	1614.6	1614.6
37.5°	1527.2	1523.9	1549.5	1535.8	1531.4
40°	1472.8	1470.9	1493.6	1478.5	1478.5
42.5°	1418.3	1416.5	1436.1	1418.0	1418.0
45°	1334.8	1331.1	1344.2	1327.1	1323.4
47.5°	1243.6	1239.9	1248.2	1229.6	1227.8
50°	1181.6	1177.9	1181.6	1164.6	1162.7
52.5°	1118.1	1111.5	1112.1	1095.0	1094.7
55°	1020.9	1008.0	1007.7	992.6	992.6
57.5°	918.1	901.1	902.6	889.7	887.8
60°	847.0	828.5	830.0	818.6	816.7
62.5°	777.4	756.0	760.4	747.5	747.2
65°	661.7	646.9	648.5	642.8	642.8
67.5°	550.5	536.9	546.8	542.2	541.8
70°	468.9	459.6	472.7	472.6	470.8
72.5°	393.2	392.9	409.1	409.2	410.3
75°	285.5	298.4	315.7	317.6	317.6
77.5°	190.6	213.5	232.5	233.3	232.9
80°	136.1	162.0	179.6	183.3	181.5
82.5°	92.3	119.6	134.2	138.0	136.1
85°	41.6	63.8	75.6	77.5	75.6
87.5°	12.6	27.0	34.6	32.3	29.4
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)