

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: P562820

Luminaire Tested: **SQ4-PC3-0U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562820
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-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

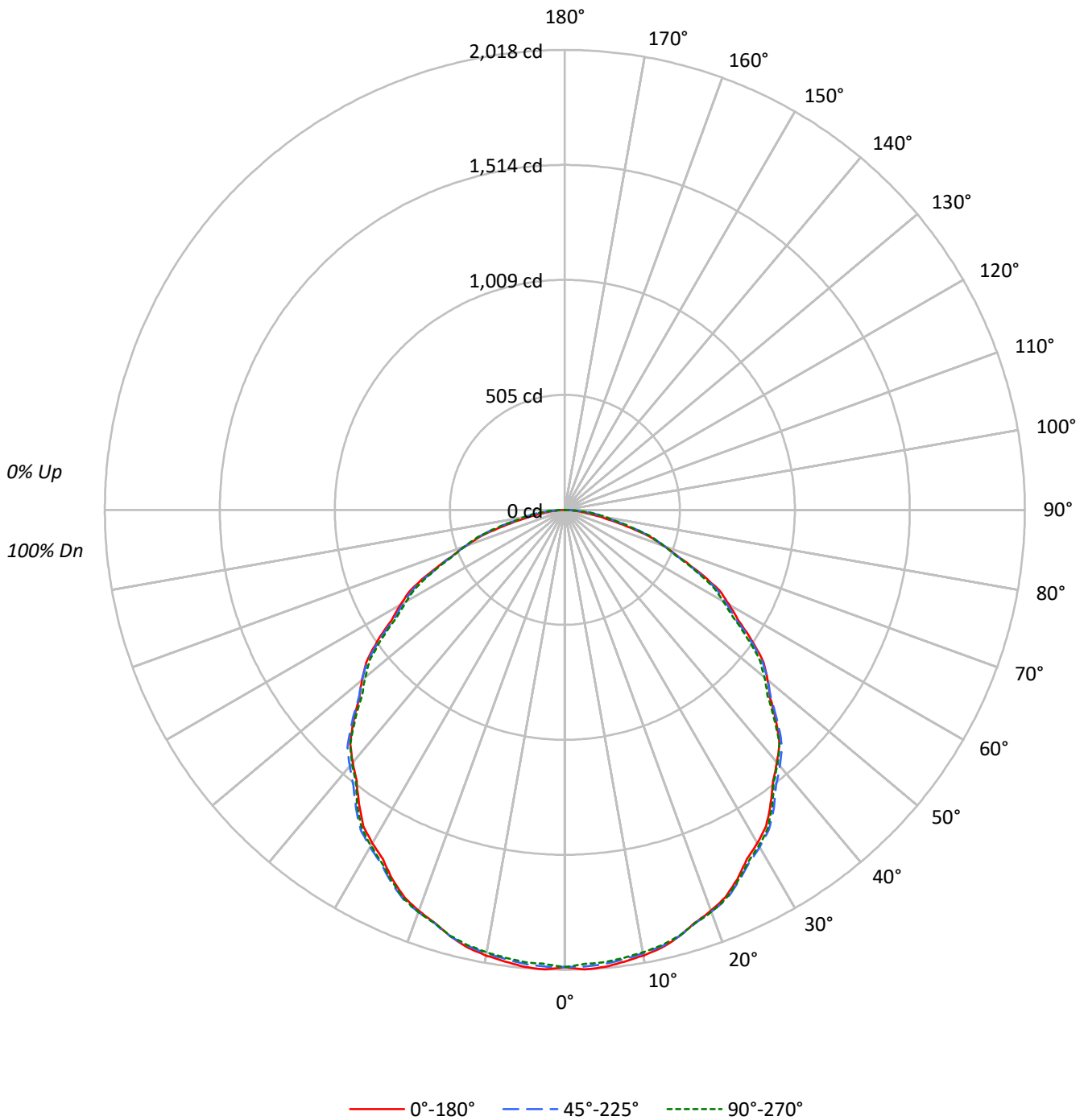
Lumens per Lamp: N/A
Luminaire Lumens: 5475.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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°	9255	9255	9255
5°	9325	9265	9230
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9065
35°	8861	8997	8934
40°	8714	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7964	7844
60°	7678	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5529	5563
80°	3555	4689	4737
85°	2165	3933	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	3.5
10°-20°	544.9	10.0
20°-30°	825.2	15.1
30°-40°	989.3	18.1
40°-50°	1008.7	18.4
50°-60°	880.5	16.1
60°-70°	630.4	11.5
70°-80°	324.7	5.9
80°-90°	82.1	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°	1559.9	28.5
0°-40°	2549.2	46.6
0°-60°	4438.4	81.1
0°-90°	5475.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5475.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2014	1994	2001	1995	1993	191
15°	1938	1921	1938	1938	1936	546
25°	1789	1776	1802	1796	1796	823
35°	1574	1570	1598	1586	1586	984
45°	1312	1308	1321	1304	1300	1010
55°	1003	990	990	975	975	894
65°	650	636	637	632	632	643
75°	280	293	310	312	312	303
85°	41	63	74	76	74	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2018.2	2000.8	2006.3	2001.7	1994.4
5°	2013.7	1993.8	2000.7	1995.1	1993.3
7.5°	1999.3	1979.3	1988.5	1984.7	1982.9
10°	1985.9	1965.9	1976.6	1972.8	1971.0
12.5°	1968.0	1949.5	1961.7	1958.0	1957.6
15°	1937.6	1921.2	1937.6	1937.5	1935.7
17.5°	1899.3	1884.4	1901.9	1903.0	1901.9
20°	1872.6	1856.2	1878.1	1876.3	1878.1
22.5°	1839.9	1826.4	1849.9	1845.1	1846.9
25°	1789.0	1776.2	1802.0	1796.4	1796.4
27.5°	1728.8	1719.7	1747.7	1741.8	1741.8
30°	1688.6	1679.6	1709.1	1701.7	1701.7
32.5°	1644.1	1637.9	1666.0	1657.1	1657.1
35°	1573.5	1569.8	1597.6	1586.5	1586.5
37.5°	1500.6	1497.4	1522.6	1509.1	1504.7
40°	1447.1	1445.3	1467.6	1452.7	1452.7
42.5°	1393.6	1391.8	1411.1	1393.3	1393.3
45°	1311.5	1307.9	1320.8	1304.0	1300.4
47.5°	1222.0	1218.4	1226.5	1208.2	1206.4
50°	1161.1	1157.4	1161.1	1144.3	1142.5
52.5°	1098.6	1092.1	1092.7	1076.0	1075.6
55°	1003.2	990.4	990.2	975.3	975.3
57.5°	902.1	885.4	886.9	874.2	872.4
60°	832.2	814.1	815.5	804.3	802.5
62.5°	763.9	742.8	747.2	734.5	734.2
65°	650.2	635.7	637.2	631.6	631.6
67.5°	541.0	527.5	537.2	532.8	532.4
70°	460.7	451.6	464.4	464.4	462.6
72.5°	386.4	386.0	402.0	402.0	403.1
75°	280.5	293.2	310.2	312.1	312.1
77.5°	187.3	209.8	228.5	229.2	228.9
80°	133.8	159.2	176.5	180.2	178.3
82.5°	90.7	117.5	131.9	135.6	133.8
85°	40.9	62.7	74.3	76.1	74.3
87.5°	11.9	25.0	29.7	29.7	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)