

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: P562843

Luminaire Tested: **SQ4-PC3-0U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562843
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-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

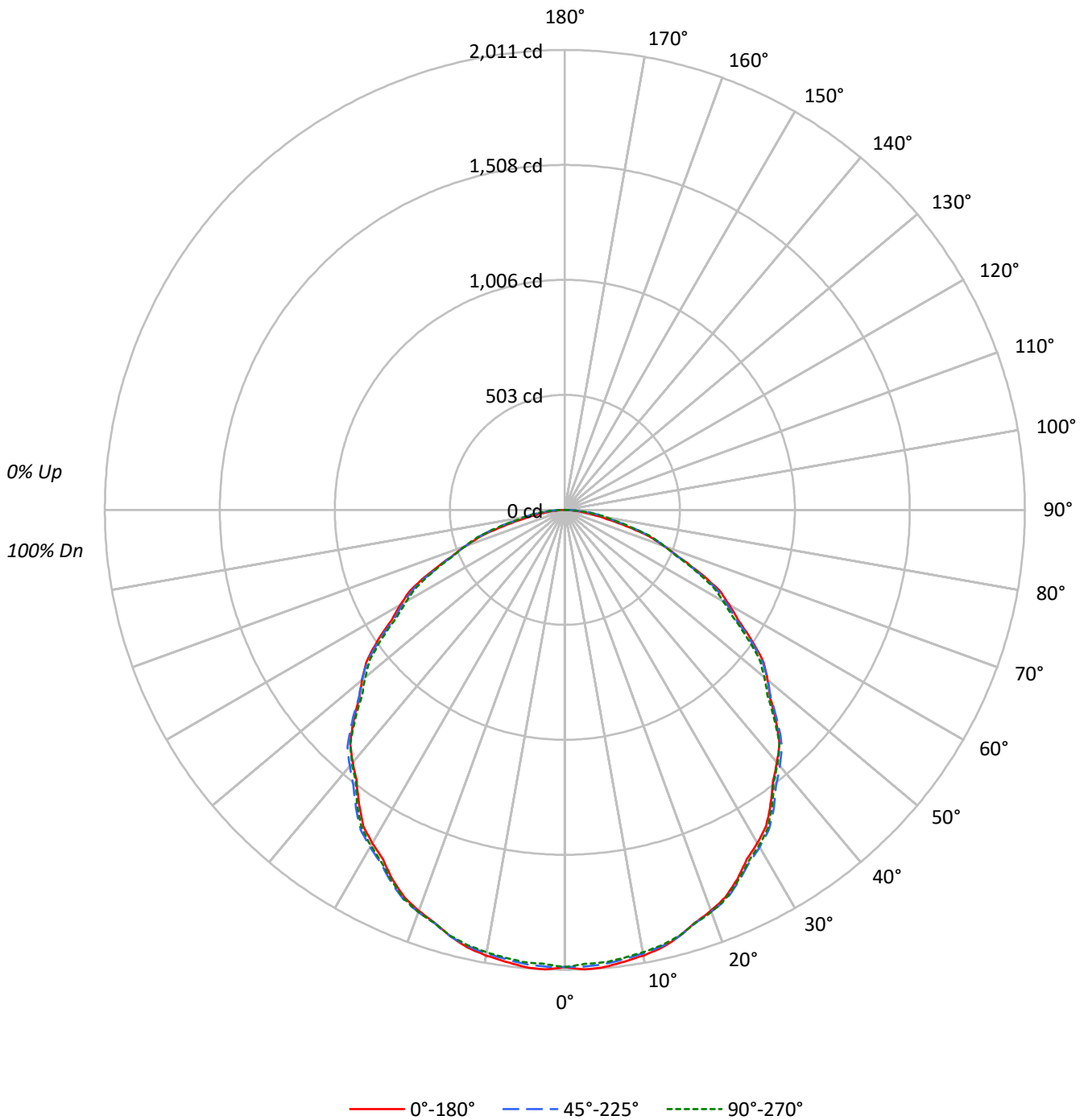
Lumens per Lamp: N/A
Luminaire Lumens: 5456.6 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12297	12297	12297
5°	12391	12310	12265
10°	12360	12302	12268
15°	12295	12295	12283
20°	12215	12251	12251
25°	12099	12187	12149
30°	11952	12096	12043
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11071	11071	10894
55°	10720	10581	10422
60°	10203	9998	9838
65°	9430	9242	9160
70°	8256	8323	8291
75°	6642	7348	7391
80°	4722	6231	6294
85°	2872	5222	5222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.5
10°-20°	543.0	10.0
20°-30°	822.3	15.1
30°-40°	985.8	18.1
40°-50°	1005.2	18.4
50°-60°	877.5	16.1
60°-70°	628.2	11.5
70°-80°	323.6	5.9
80°-90°	81.8	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°	1554.5	28.5
0°-40°	2540.3	46.6
0°-60°	4423.0	81.1
0°-90°	5456.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5456.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2007	1987	1994	1988	1986	190
15°	1931	1915	1931	1931	1929	544
25°	1783	1770	1796	1790	1790	820
35°	1568	1564	1592	1581	1581	981
45°	1307	1303	1316	1300	1296	1006
55°	1000	987	987	972	972	891
65°	648	634	635	629	629	641
75°	280	292	309	311	311	302
85°	41	62	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°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	2011.2	1993.8	1999.3	1994.7	1987.5
5°	2006.8	1986.8	1993.8	1988.2	1986.4
7.5°	1992.3	1972.4	1981.6	1977.8	1976.0
10°	1979.0	1959.1	1969.7	1966.0	1964.2
12.5°	1961.2	1942.7	1954.9	1951.2	1950.8
15°	1930.8	1914.6	1930.8	1930.8	1929.0
17.5°	1892.7	1877.9	1895.3	1896.4	1895.3
20°	1866.1	1849.8	1871.6	1869.8	1871.6
22.5°	1833.5	1820.1	1843.5	1838.7	1840.5
25°	1782.7	1770.1	1795.7	1790.2	1790.2
27.5°	1722.8	1713.7	1741.7	1735.7	1735.7
30°	1682.8	1673.7	1703.1	1695.7	1695.7
32.5°	1638.4	1632.2	1660.2	1651.3	1651.3
35°	1568.0	1564.4	1592.1	1581.0	1581.0
37.5°	1495.4	1492.2	1517.3	1503.9	1499.5
40°	1442.1	1440.3	1462.5	1447.7	1447.7
42.5°	1388.8	1387.0	1406.2	1388.4	1388.4
45°	1307.0	1303.4	1316.2	1299.5	1295.9
47.5°	1217.7	1214.1	1222.2	1204.0	1202.2
50°	1157.0	1153.4	1157.0	1140.3	1138.5
52.5°	1094.8	1088.3	1088.9	1072.2	1071.9
55°	999.7	987.0	986.7	971.9	971.9
57.5°	899.0	882.3	883.8	871.2	869.3
60°	829.4	811.3	812.7	801.5	799.7
62.5°	761.2	740.2	744.6	732.0	731.6
65°	647.9	633.5	635.0	629.4	629.4
67.5°	539.1	525.7	535.4	530.9	530.6
70°	459.1	450.1	462.8	462.8	461.0
72.5°	385.1	384.7	400.6	400.6	401.7
75°	279.5	292.2	309.2	311.0	311.0
77.5°	186.6	209.1	227.7	228.4	228.1
80°	133.3	158.6	175.9	179.5	177.7
82.5°	90.3	117.1	131.4	135.1	133.3
85°	40.7	62.4	74.0	75.9	74.0
87.5°	11.8	24.9	29.6	29.6	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)