

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: P561615

Luminaire Tested: **SQ4-PC3-0U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561615
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-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5413.7 lumens
Efficiency: N/A
Efficacy: 97.7 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: Direct

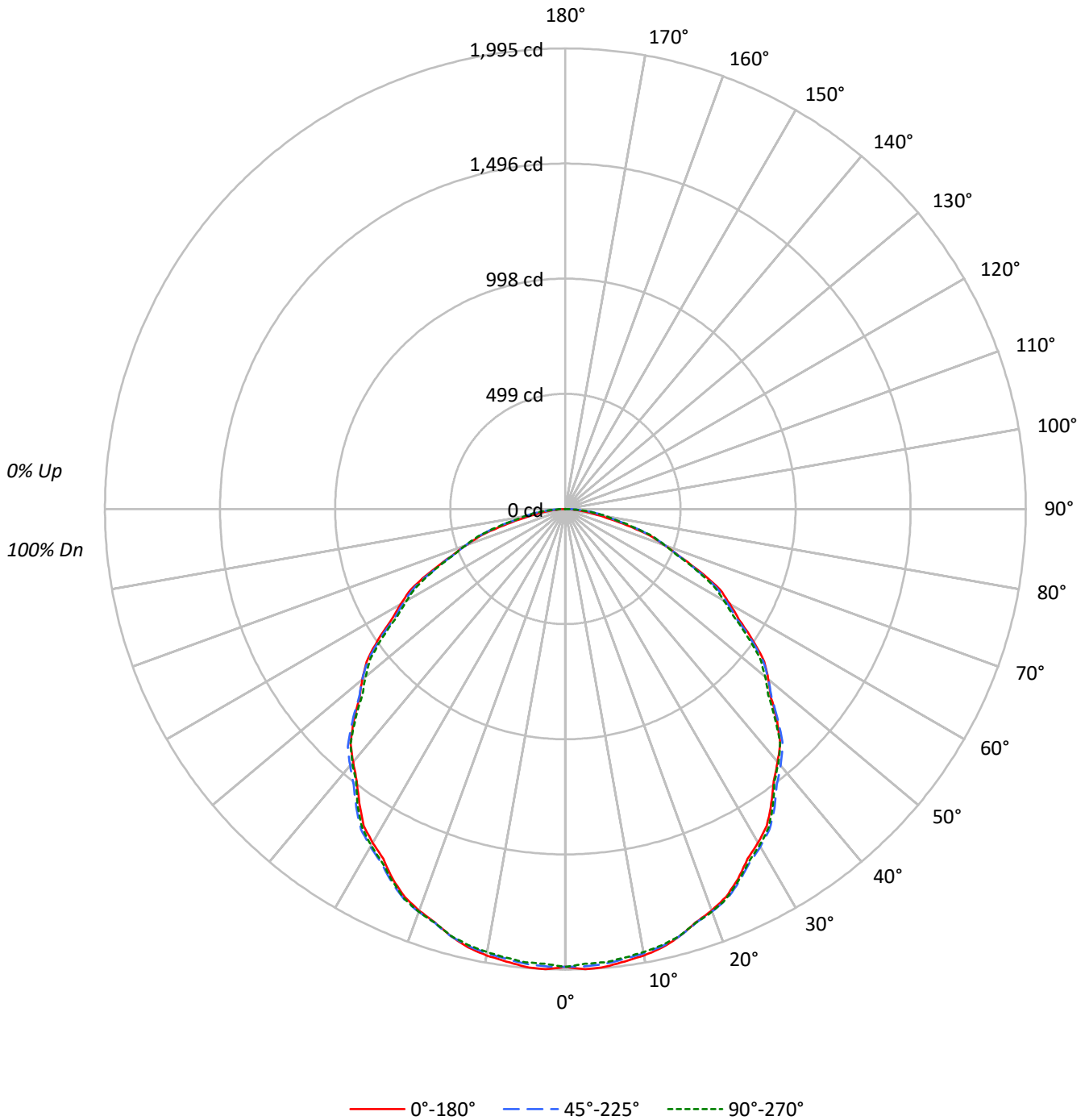
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18301	18301	18301
5°	18440	18320	18252
10°	18394	18308	18256
15°	18298	18298	18280
20°	18178	18232	18232
25°	18005	18137	18081
30°	17786	18001	17923
35°	17522	17790	17666
40°	17232	17476	17299
45°	16919	17039	16776
50°	16476	16476	16214
55°	15953	15746	15511
60°	15183	14878	14640
65°	14033	13754	13633
70°	12287	12387	12336
75°	9885	10933	11001
80°	7024	9271	9367
85°	4277	7781	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	3.5
10°-20°	538.7	10.0
20°-30°	815.8	15.1
30°-40°	978.1	18.1
40°-50°	997.3	18.4
50°-60°	870.6	16.1
60°-70°	623.3	11.5
70°-80°	321.0	5.9
80°-90°	81.2	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°	1542.3	28.5
0°-40°	2520.4	46.6
0°-60°	4388.2	81.1
0°-90°	5413.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5413.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1991	1971	1978	1973	1971	189
15°	1916	1900	1916	1916	1914	540
25°	1769	1756	1782	1776	1776	814
35°	1556	1552	1580	1568	1568	973
45°	1297	1293	1306	1289	1286	998
55°	992	979	979	964	964	884
65°	643	628	630	624	624	636
75°	277	290	307	309	309	300
85°	40	62	74	75	74	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1995.4	1978.1	1983.6	1979.0	1971.9
5°	1991.0	1971.2	1978.1	1972.6	1970.8
7.5°	1976.6	1956.9	1966.0	1962.3	1960.5
10°	1963.4	1943.7	1954.2	1950.5	1948.7
12.5°	1945.8	1927.5	1939.5	1935.9	1935.5
15°	1915.7	1899.5	1915.7	1915.6	1913.8
17.5°	1877.8	1863.1	1880.4	1881.5	1880.4
20°	1851.4	1835.2	1856.9	1855.1	1856.9
22.5°	1819.0	1805.8	1829.0	1824.2	1826.0
25°	1768.7	1756.2	1781.6	1776.1	1776.1
27.5°	1709.2	1700.2	1727.9	1722.1	1722.1
30°	1669.5	1660.6	1689.7	1682.4	1682.4
32.5°	1625.5	1619.4	1647.1	1638.3	1638.3
35°	1555.7	1552.1	1579.5	1568.5	1568.5
37.5°	1483.7	1480.4	1505.3	1492.0	1487.7
40°	1430.8	1429.0	1451.0	1436.3	1436.3
42.5°	1377.9	1376.1	1395.1	1377.5	1377.5
45°	1296.7	1293.1	1305.9	1289.3	1285.7
47.5°	1208.2	1204.6	1212.6	1194.5	1192.7
50°	1147.9	1144.3	1147.9	1131.4	1129.6
52.5°	1086.2	1079.7	1080.3	1063.8	1063.4
55°	991.8	979.2	978.9	964.3	964.3
57.5°	891.9	875.4	876.8	864.3	862.5
60°	822.8	804.9	806.3	795.2	793.4
62.5°	755.2	734.4	738.7	726.2	725.9
65°	642.8	628.5	630.0	624.5	624.5
67.5°	534.8	521.6	531.2	526.8	526.4
70°	455.5	446.5	459.2	459.1	457.3
72.5°	382.0	381.7	397.5	397.5	398.6
75°	277.3	289.9	306.7	308.6	308.6
77.5°	185.1	207.4	225.9	226.6	226.3
80°	132.2	157.4	174.5	178.1	176.3
82.5°	89.6	116.2	130.4	134.0	132.2
85°	40.4	62.0	73.5	75.3	73.5
87.5°	11.8	24.7	29.4	29.3	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)