

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: P561602

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561602
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-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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: 4275.9 lumens
Efficiency: N/A
Efficacy: 101.6 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

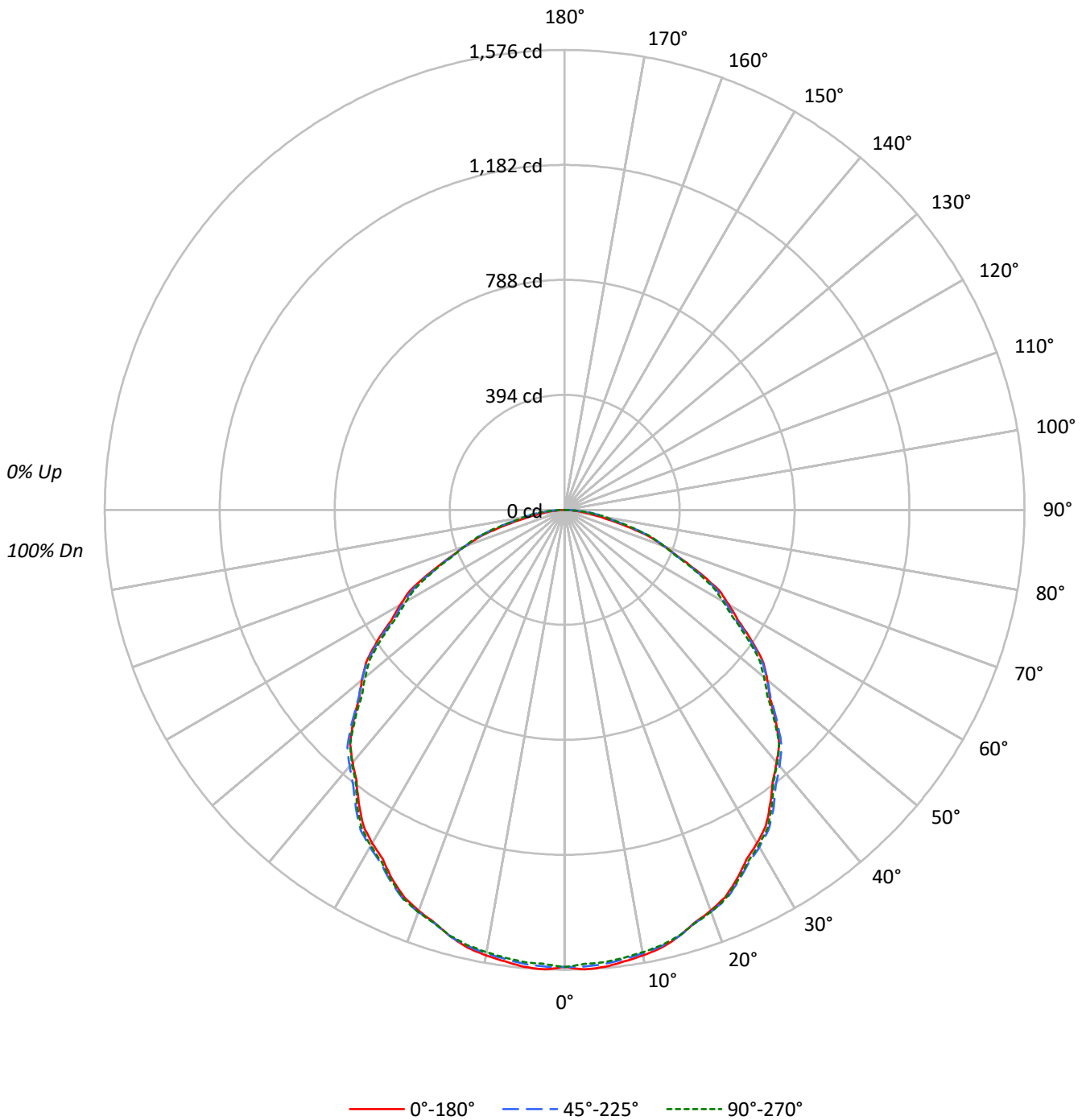
Input Watts (W): 42.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14455	14455	14455
5°	14564	14470	14416
10°	14529	14460	14420
15°	14453	14453	14438
20°	14357	14400	14400
25°	14221	14325	14280
30°	14049	14218	14156
35°	13839	14052	13954
40°	13611	13802	13663
45°	13364	13458	13250
50°	13014	13014	12806
55°	12601	12437	12251
60°	11992	11752	11564
65°	11084	10863	10767
70°	9706	9784	9744
75°	7810	8637	8687
80°	5547	7322	7401
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.5
10°-20°	425.5	10.0
20°-30°	644.4	15.1
30°-40°	772.5	18.1
40°-50°	787.7	18.4
50°-60°	687.6	16.1
60°-70°	492.3	11.5
70°-80°	253.5	5.9
80°-90°	64.1	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°	1218.2	28.5
0°-40°	1990.7	46.6
0°-60°	3466.0	81.1
0°-90°	4275.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1572	1557	1562	1558	1557	149
15°	1513	1500	1513	1513	1512	427
25°	1397	1387	1407	1403	1403	643
35°	1229	1226	1248	1239	1239	768
45°	1024	1021	1031	1018	1016	788
55°	783	773	773	762	762	698
65°	508	496	498	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1576.0	1562.4	1566.7	1563.1	1557.5
5°	1572.5	1556.9	1562.4	1558.0	1556.6
7.5°	1561.2	1545.6	1552.8	1549.9	1548.5
10°	1550.8	1535.2	1543.5	1540.6	1539.2
12.5°	1536.9	1522.4	1531.9	1529.0	1528.7
15°	1513.1	1500.3	1513.1	1513.0	1511.6
17.5°	1483.2	1471.6	1485.2	1486.1	1485.2
20°	1462.3	1449.5	1466.6	1465.2	1466.6
22.5°	1436.8	1426.3	1444.6	1440.9	1442.3
25°	1397.0	1387.1	1407.2	1402.8	1402.8
27.5°	1350.0	1342.9	1364.8	1360.2	1360.2
30°	1318.7	1311.6	1334.6	1328.8	1328.8
32.5°	1283.9	1279.0	1301.0	1294.0	1294.0
35°	1228.7	1225.9	1247.6	1238.9	1238.9
37.5°	1171.9	1169.3	1189.0	1178.5	1175.1
40°	1130.1	1128.7	1146.0	1134.4	1134.4
42.5°	1088.3	1086.9	1101.9	1088.0	1088.0
45°	1024.2	1021.4	1031.4	1018.3	1015.5
47.5°	954.3	951.4	957.7	943.5	942.1
50°	906.7	903.8	906.7	893.6	892.2
52.5°	857.9	852.8	853.3	840.2	840.0
55°	783.4	773.4	773.2	761.6	761.6
57.5°	704.5	691.4	692.6	682.7	681.2
60°	649.9	635.7	636.9	628.1	626.7
62.5°	596.5	580.1	583.5	573.6	573.3
65°	507.7	496.4	497.6	493.2	493.2
67.5°	422.4	411.9	419.5	416.1	415.8
70°	359.8	352.7	362.7	362.6	361.2
72.5°	301.7	301.5	313.9	313.9	314.8
75°	219.1	229.0	242.3	243.7	243.7
77.5°	146.2	163.8	178.4	179.0	178.7
80°	104.4	124.3	137.8	140.7	139.3
82.5°	70.8	91.8	103.0	105.9	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.3	19.5	23.2	23.2	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)