

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: P561654

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561654
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-100U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

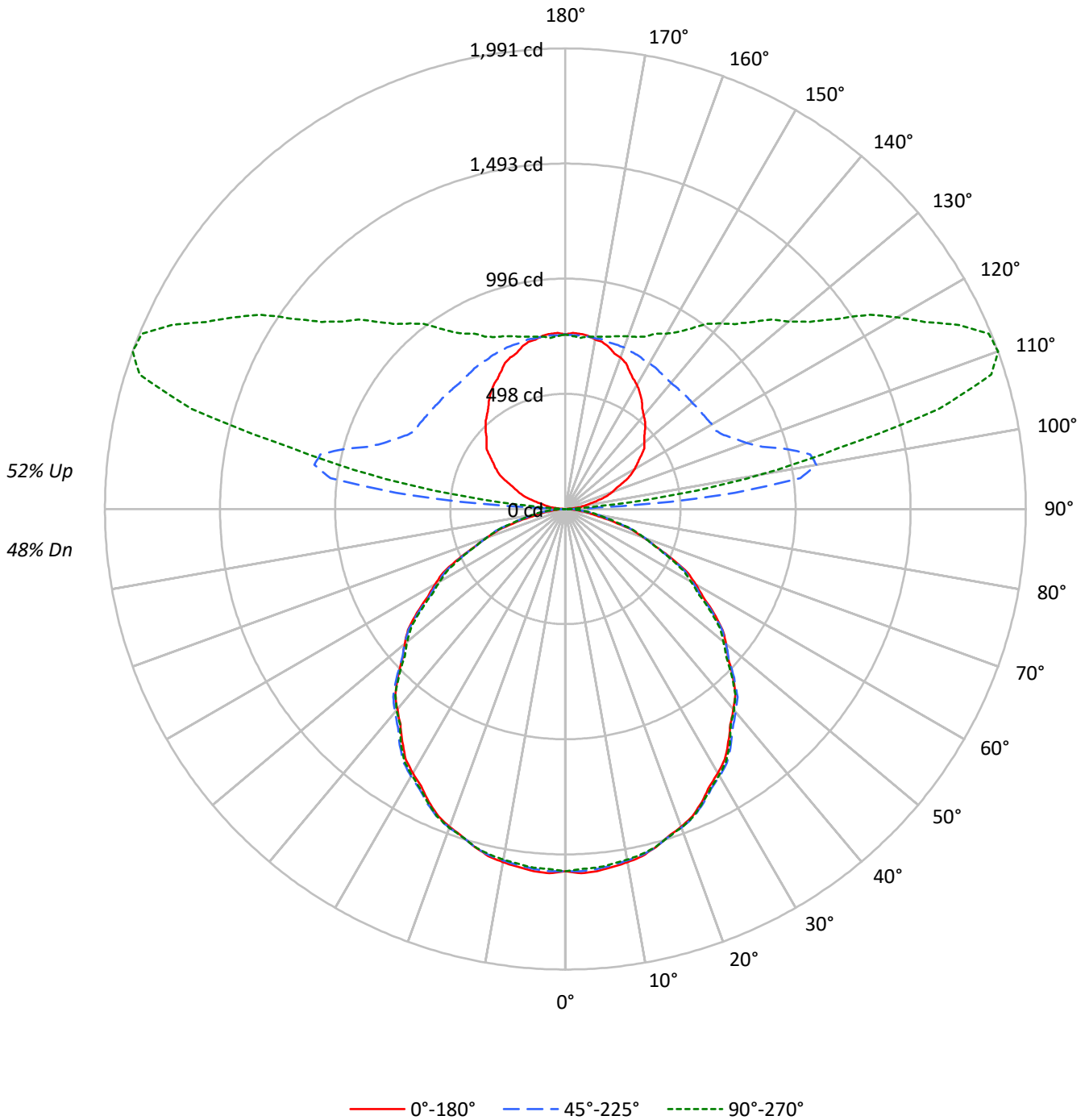
Lumens per Lamp: N/A
Luminaire Lumens: 8959.5 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.3
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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	1.7
10°-20°	425.5	4.7
20°-30°	644.4	7.2
30°-40°	772.5	8.6
40°-50°	787.7	8.8
50°-60°	687.6	7.7
60°-70°	492.3	5.5
70°-80°	253.5	2.8
80°-90°	64.1	0.7
90°-100°	343.6	3.8
100°-110°	977.6	10.9
110°-120°	936.6	10.5
120°-130°	741.3	8.3
130°-140°	595.0	6.6
140°-150°	465.8	5.2
150°-160°	340.8	3.8
160°-170°	211.1	2.4
170°-180°	71.6	0.8
0°-30°	1218.2	13.6
0°-40°	1990.7	22.2
0°-60°	3466.0	38.7
0°-90°	4275.9	47.7
90°-120°	2257.8	25.2
90°-150°	4059.9	45.3
90°-180°	4684.0	52.3
0°-180°	8959.5	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	43
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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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
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)