

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: P562973

Luminaire Tested: **SQ4-PC3-100U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562973
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

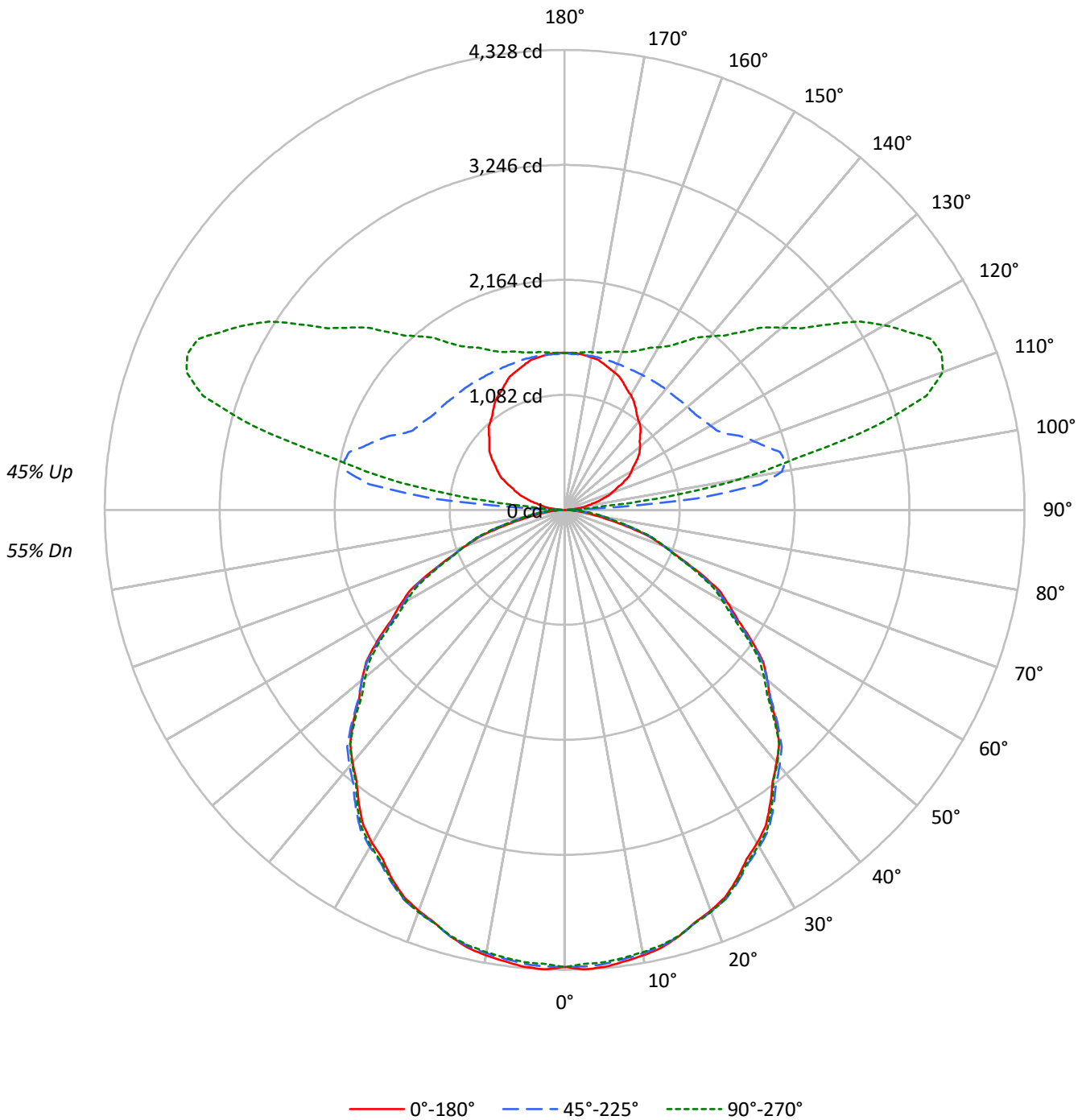
Lumens per Lamp: N/A
Luminaire Lumens: 21332.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 214.8
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12772
40°	12457	12633	12506
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10146	9943	9855
70°	8883	8954	8919
75°	7147	7904	7952
80°	5079	6702	6773
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.9
10°-20°	1168.4	5.5
20°-30°	1769.3	8.3
30°-40°	2121.2	9.9
40°-50°	2162.9	10.1
50°-60°	1888.1	8.9
60°-70°	1351.7	6.3
70°-80°	696.2	3.3
80°-90°	179.1	0.8
90°-100°	691.1	3.2
100°-110°	1907.8	8.9
110°-120°	1967.5	9.2
120°-130°	1581.1	7.4
130°-140°	1242.6	5.8
140°-150°	953.0	4.5
150°-160°	684.9	3.2
160°-170°	418.9	2.0
170°-180°	141.2	0.7
0°-30°	3344.9	15.7
0°-40°	5466.1	25.6
0°-60°	9517.0	44.6
0°-90°	11744.0	55.1
90°-120°	4566.4	21.4
90°-150°	8343.0	39.1
90°-180°	9588.0	44.9
0°-180°	21332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4302	4302	4302	4302	4302	
5°	4318	4275	4290	4278	4274	410
15°	4155	4120	4155	4154	4151	1171
25°	3836	3809	3864	3852	3852	1765
35°	3374	3366	3426	3402	3402	2110
45°	2812	2804	2832	2796	2788	2165
55°	2151	2124	2123	2091	2091	1917
65°	1394	1363	1366	1354	1354	1379
75°	602	629	665	669	669	650
85°	88	134	159	163	159	119
90°	5	9	19	21	24	11
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4302.0	4302.0	4302.0	4302.0	4302.0
2.5°	4327.5	4290.1	4302.0	4292.1	4276.5
5°	4317.9	4275.1	4290.1	4278.0	4274.1
7.5°	4286.9	4244.0	4263.8	4255.7	4251.8
10°	4258.2	4215.3	4238.3	4230.2	4226.3
12.5°	4219.9	4180.2	4206.4	4198.4	4197.6
15°	4154.6	4119.6	4154.6	4154.5	4150.6
17.5°	4072.6	4040.6	4078.1	4080.5	4078.1
20°	4015.2	3980.2	4027.2	4023.3	4027.2
22.5°	3945.1	3916.3	3966.6	3956.3	3960.2
25°	3836.0	3808.7	3863.8	3851.9	3851.9
27.5°	3706.9	3687.4	3747.5	3734.8	3734.8
30°	3620.9	3601.4	3664.7	3648.7	3648.7
32.5°	3525.3	3512.0	3572.3	3553.1	3553.1
35°	3373.9	3366.1	3425.7	3401.8	3401.8
37.5°	3217.7	3210.7	3264.7	3235.9	3226.5
40°	3103.0	3099.1	3146.8	3115.0	3115.0
42.5°	2988.3	2984.4	3025.7	2987.5	2987.5
45°	2812.2	2804.4	2832.2	2796.1	2788.3
47.5°	2620.2	2612.5	2629.8	2590.7	2586.8
50°	2489.6	2481.8	2489.6	2453.6	2449.8
52.5°	2355.7	2341.7	2343.0	2307.1	2306.4
55°	2151.0	2123.7	2123.1	2091.3	2091.3
57.5°	1934.3	1898.5	1901.6	1874.5	1870.6
60°	1784.5	1745.6	1748.7	1724.7	1720.8
62.5°	1637.9	1592.8	1602.1	1575.0	1574.2
65°	1394.2	1363.0	1366.3	1354.3	1354.3
67.5°	1159.9	1131.1	1152.0	1142.4	1141.6
70°	987.9	968.4	995.8	995.7	991.9
72.5°	828.5	827.8	862.0	862.0	864.4
75°	601.5	628.7	665.2	669.2	669.2
77.5°	401.5	449.8	490.0	491.5	490.7
80°	286.8	341.3	378.4	386.3	382.4
82.5°	194.4	252.0	282.8	290.7	286.8
85°	87.6	134.4	159.3	163.2	159.3
87.5°	26.4	55.4	67.5	67.9	62.1
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)