

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: P563088

Luminaire Tested: **SQ4-PC3-150U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563088
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

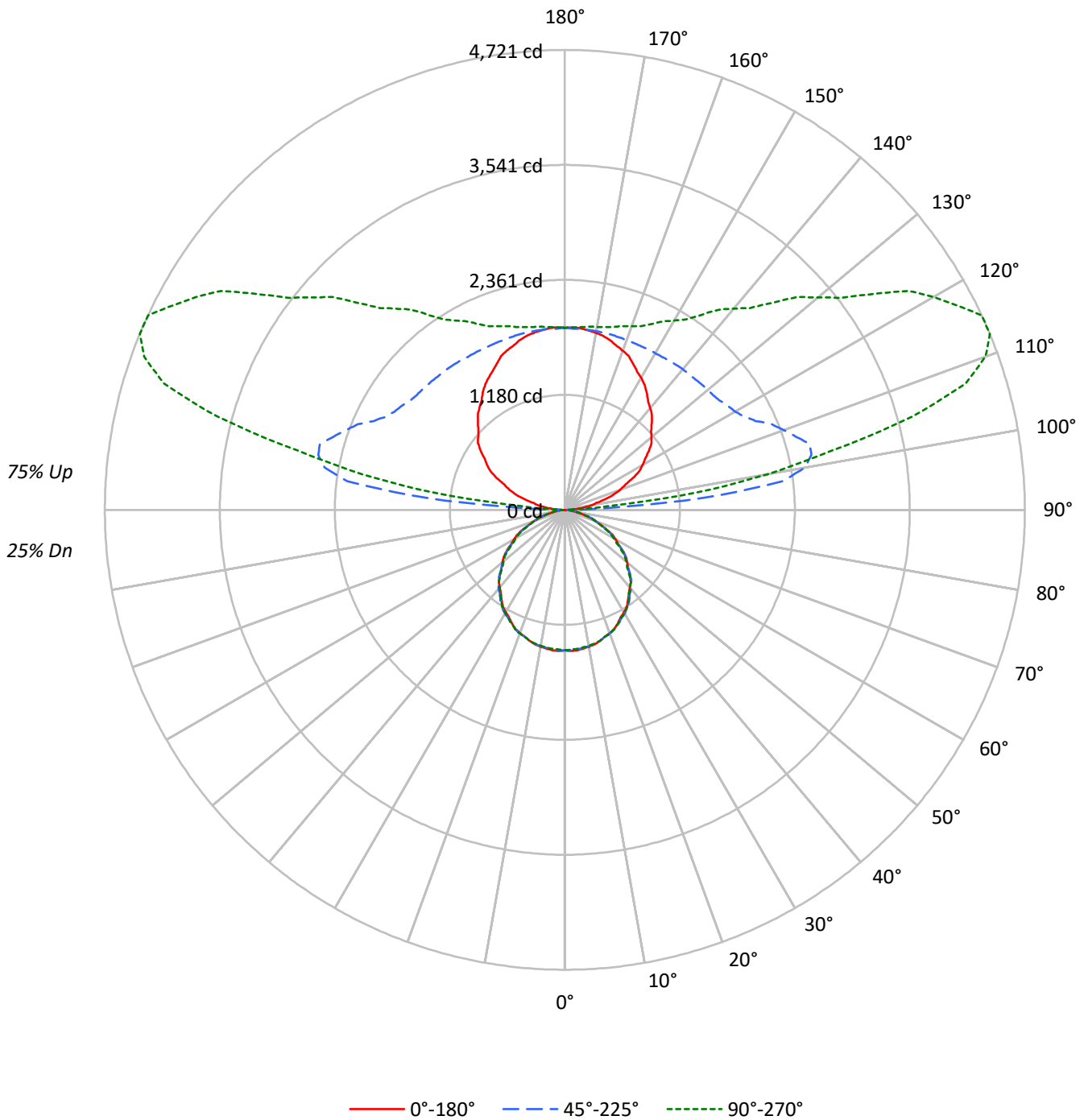
Lumens per Lamp: N/A
Luminaire Lumens: 15987.7 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5800	5724	5638
60°	5519	5408	5323
65°	5102	4999	4956
70°	4467	4502	4485
75°	3593	3975	3998
80°	2553	3371	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	0.9
10°-20°	391.7	2.4
20°-30°	593.1	3.7
30°-40°	711.1	4.4
40°-50°	725.1	4.5
50°-60°	632.9	4.0
60°-70°	453.1	2.8
70°-80°	233.4	1.5
80°-90°	62.9	0.4
90°-100°	868.4	5.4
100°-110°	2348.1	14.7
110°-120°	2468.6	15.4
120°-130°	2005.2	12.5
130°-140°	1572.9	9.8
140°-150°	1207.2	7.6
150°-160°	868.2	5.4
160°-170°	530.4	3.3
170°-180°	178.8	1.1
0°-30°	1121.3	7.0
0°-40°	1832.4	11.5
0°-60°	3190.4	20.0
0°-90°	3939.8	24.6
90°-120°	5685.1	35.6
90°-150°	10470.5	65.5
90°-180°	12048.0	75.4
0°-180°	15987.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1448	1433	1438	1434	1433	137
15°	1393	1381	1393	1393	1391	393
25°	1286	1277	1295	1291	1291	592
35°	1131	1128	1148	1140	1140	707
45°	943	940	949	937	935	726
55°	721	712	712	701	701	643
65°	467	457	458	454	454	462
75°	202	211	223	224	224	218
85°	29	45	53	55	53	40
90°	4	12	26	28	26	10
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1450.7	1438.2	1442.2	1438.8	1433.6
5°	1447.5	1433.1	1438.2	1434.1	1432.8
7.5°	1437.1	1422.7	1429.3	1426.6	1425.3
10°	1427.5	1413.1	1420.8	1418.1	1416.8
12.5°	1414.7	1401.3	1410.1	1407.4	1407.2
15°	1392.8	1381.0	1392.8	1392.7	1391.4
17.5°	1365.2	1354.5	1367.1	1367.9	1367.1
20°	1346.0	1334.3	1350.0	1348.7	1350.0
22.5°	1322.5	1312.9	1329.7	1326.3	1327.6
25°	1285.9	1276.8	1295.3	1291.3	1291.3
27.5°	1242.7	1236.1	1256.3	1252.0	1252.0
30°	1213.8	1207.3	1228.5	1223.2	1223.2
32.5°	1181.8	1177.3	1197.5	1191.1	1191.1
35°	1131.0	1128.4	1148.4	1140.4	1140.4
37.5°	1078.7	1076.3	1094.4	1084.8	1081.6
40°	1040.2	1038.9	1054.9	1044.2	1044.2
42.5°	1001.8	1000.5	1014.3	1001.5	1001.5
45°	942.7	940.1	949.4	937.3	934.7
47.5°	878.4	875.8	881.6	868.5	867.2
50°	834.6	832.0	834.6	822.5	821.2
52.5°	789.7	785.0	785.4	773.4	773.2
55°	721.1	711.9	711.7	701.0	701.0
57.5°	648.4	636.4	637.5	628.4	627.1
60°	598.2	585.2	586.2	578.2	576.9
62.5°	549.1	533.9	537.1	528.0	527.7
65°	467.4	456.9	458.0	454.0	454.0
67.5°	388.8	379.2	386.2	383.0	382.7
70°	331.2	324.6	333.8	333.8	332.5
72.5°	277.7	277.5	289.0	289.0	289.8
75°	201.6	210.8	223.0	224.3	224.3
77.5°	134.6	150.8	164.2	164.8	164.5
80°	96.1	114.4	126.9	129.5	128.2
82.5°	65.2	84.5	94.8	97.4	96.1
85°	29.4	45.0	53.4	54.7	53.4
87.5°	9.4	20.3	26.6	26.9	24.5
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)