

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: P563162

Luminaire Tested: **SQ4-PC3-150U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563162
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-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

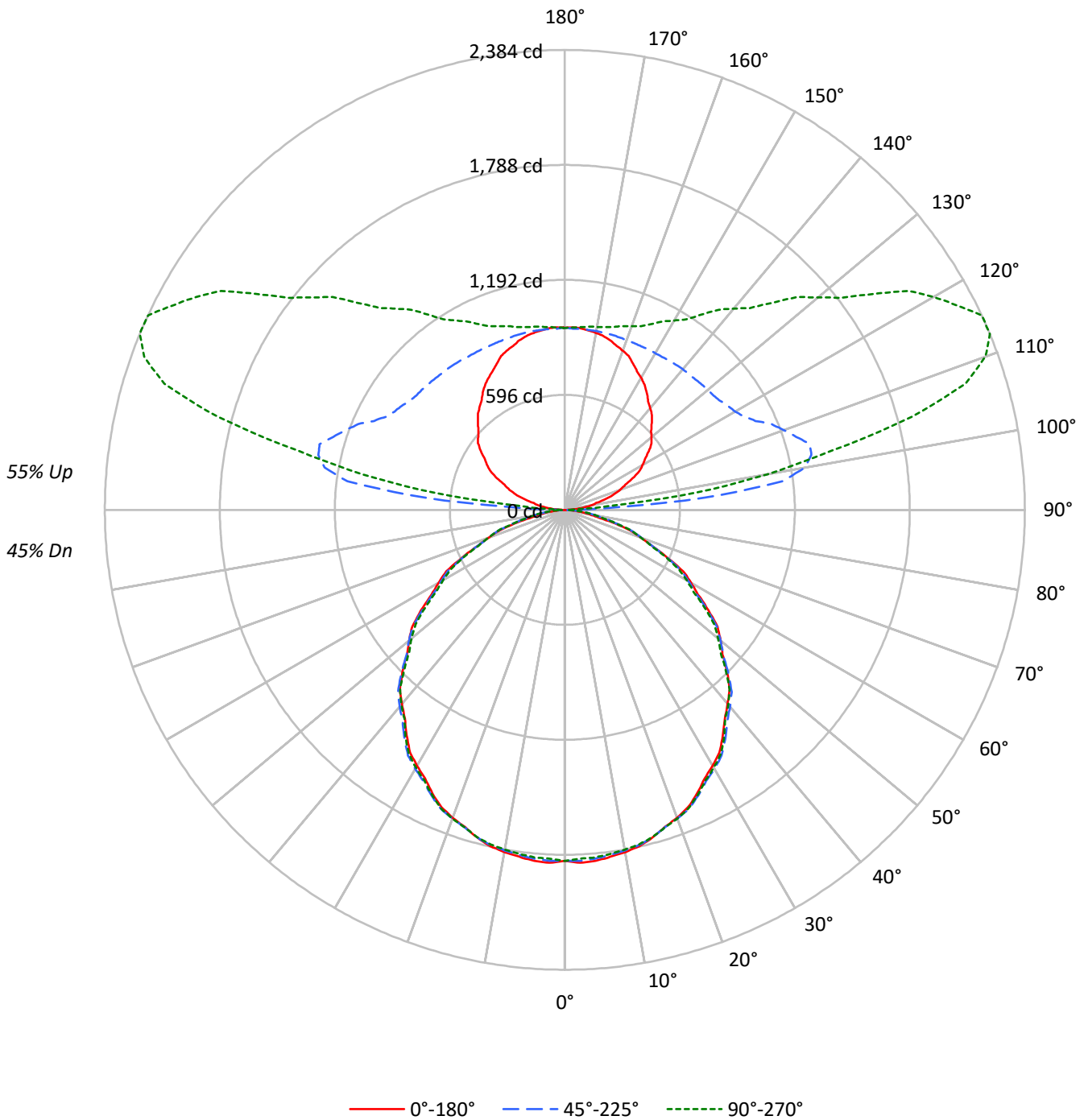
Lumens per Lamp: N/A
Luminaire Lumens: 11054.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16810	16748
10°	16879	16800	16753
15°	16790	16790	16775
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16518	16447
35°	16078	16325	16211
40°	15813	16035	15874
45°	15526	15635	15394
50°	15120	15120	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12509
70°	11276	11365	11322
75°	9072	10035	10092
80°	6445	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.6
10°-20°	494.3	4.5
20°-30°	748.6	6.8
30°-40°	897.5	8.1
40°-50°	915.1	8.3
50°-60°	798.9	7.2
60°-70°	571.9	5.2
70°-80°	294.6	2.7
80°-90°	76.5	0.7
90°-100°	438.6	4.0
100°-110°	1185.8	10.7
110°-120°	1246.8	11.3
120°-130°	1012.7	9.2
130°-140°	794.4	7.2
140°-150°	609.7	5.5
150°-160°	438.5	4.0
160°-170°	267.9	2.4
170°-180°	90.3	0.8
0°-30°	1415.2	12.8
0°-40°	2312.7	20.9
0°-60°	4026.7	36.4
0°-90°	4969.6	45.0
90°-120°	2871.2	26.0
90°-150°	5287.9	47.8
90°-180°	6085.0	55.0
0°-180°	11054.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1827	1809	1815	1810	1808	173
15°	1758	1743	1758	1758	1756	496
25°	1623	1612	1635	1630	1630	747
35°	1428	1424	1449	1439	1439	893
45°	1190	1187	1198	1183	1180	916
55°	910	899	898	885	885	811
65°	590	577	578	573	573	583
75°	254	266	282	283	283	275
85°	37	57	67	69	67	50
90°	2	6	13	14	13	6
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1831.0	1815.2	1820.2	1816.0	1809.4
5°	1826.9	1808.8	1815.1	1810.0	1808.4
7.5°	1813.8	1795.7	1804.0	1800.6	1799.0
10°	1801.7	1783.5	1793.2	1789.8	1788.2
12.5°	1785.5	1768.7	1779.7	1776.4	1776.0
15°	1757.8	1743.0	1757.8	1757.8	1756.2
17.5°	1723.1	1709.6	1725.5	1726.5	1725.5
20°	1698.9	1684.0	1703.9	1702.3	1703.9
22.5°	1669.2	1657.0	1678.3	1673.9	1675.6
25°	1623.0	1611.5	1634.8	1629.8	1629.8
27.5°	1568.4	1560.2	1585.6	1580.2	1580.2
30°	1532.0	1523.8	1550.5	1543.8	1543.8
32.5°	1491.6	1485.9	1511.4	1503.3	1503.3
35°	1427.5	1424.2	1449.4	1439.3	1439.3
37.5°	1361.4	1358.5	1381.3	1369.1	1365.1
40°	1312.9	1311.3	1331.4	1318.0	1318.0
42.5°	1264.4	1262.7	1280.2	1264.0	1264.0
45°	1189.9	1186.6	1198.3	1183.1	1179.8
47.5°	1108.6	1105.3	1112.7	1096.1	1094.5
50°	1053.4	1050.1	1053.4	1038.1	1036.5
52.5°	996.7	990.8	991.3	976.2	975.8
55°	910.1	898.6	898.3	884.8	884.8
57.5°	818.4	803.3	804.6	793.1	791.4
60°	755.0	738.6	739.9	729.7	728.1
62.5°	693.0	673.9	677.9	666.4	666.1
65°	589.9	576.7	578.1	573.0	573.0
67.5°	490.8	478.6	487.4	483.4	483.0
70°	418.0	409.7	421.3	421.3	419.7
72.5°	350.6	350.2	364.7	364.7	365.7
75°	254.5	266.0	281.5	283.1	283.1
77.5°	169.9	190.3	207.3	208.0	207.6
80°	121.3	144.4	160.1	163.4	161.8
82.5°	82.2	106.6	119.7	123.0	121.3
85°	37.1	56.9	67.4	69.1	67.4
87.5°	11.2	23.9	29.6	29.7	26.9
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)