

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: P564506

Luminaire Tested: **SQ4-PR1-150U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564506
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

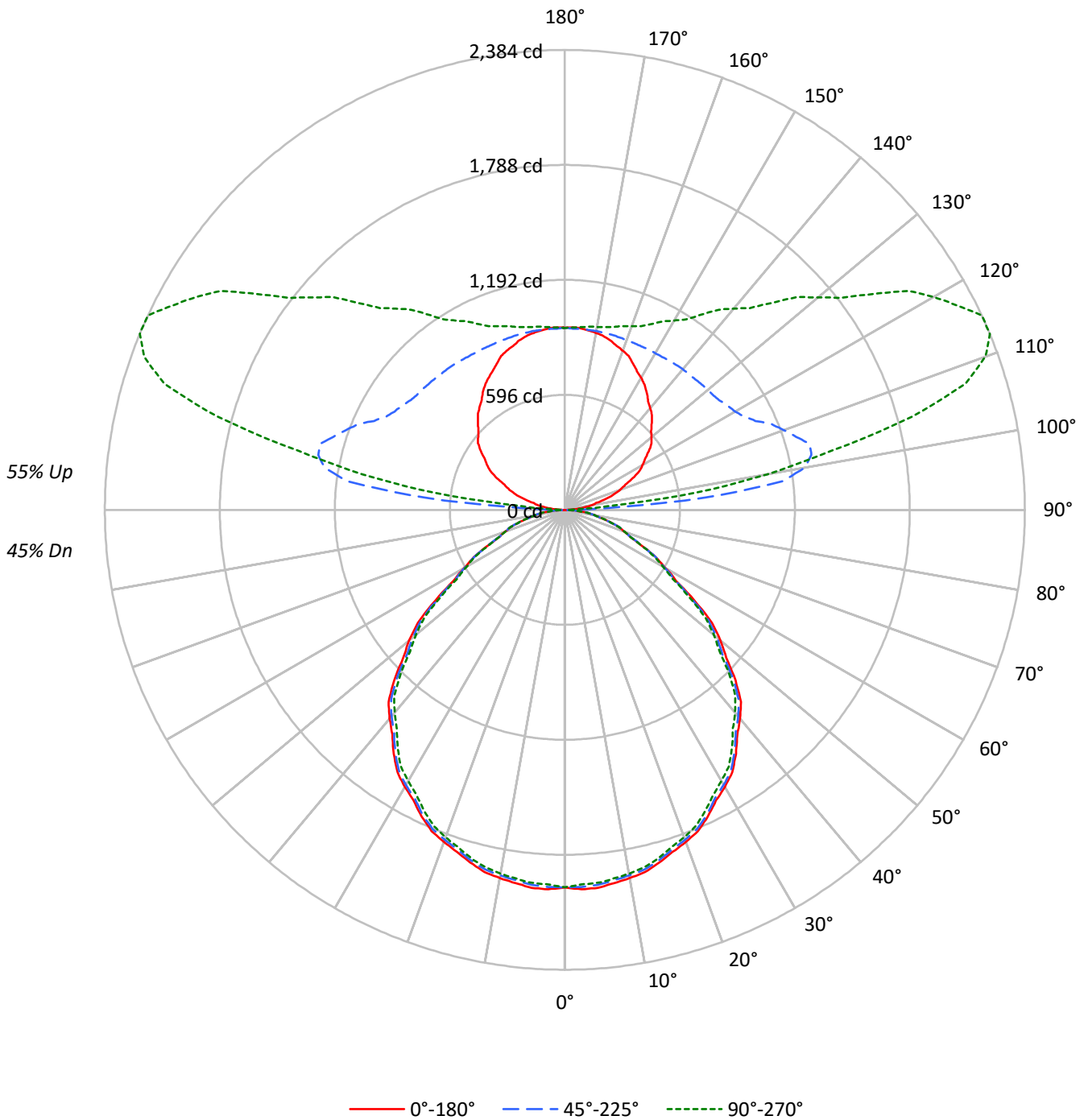
Lumens per Lamp: N/A
Luminaire Lumens: 10978.1 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18076	17981
10°	18158	18032	17937
15°	18078	17966	17869
20°	17987	17871	17739
25°	17861	17741	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16316	16031	15702
50°	15095	14732	14442
55°	13176	12876	12606
60°	11103	11009	10791
65°	9603	9641	9566
70°	8821	8864	8864
75°	8470	8470	8530
80°	7970	8060	7970
85°	6426	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.7
10°-20°	529.4	4.8
20°-30°	798.5	7.3
30°-40°	951.4	8.7
40°-50°	938.0	8.5
50°-60°	716.9	6.5
60°-70°	443.6	4.0
70°-80°	252.0	2.3
80°-90°	78.6	0.7
90°-100°	438.6	4.0
100°-110°	1185.8	10.8
110°-120°	1246.8	11.4
120°-130°	1012.7	9.2
130°-140°	794.4	7.2
140°-150°	609.7	5.6
150°-160°	438.5	4.0
160°-170°	267.9	2.4
170°-180°	90.3	0.8
0°-30°	1513.0	13.8
0°-40°	2464.4	22.4
0°-60°	4119.3	37.5
0°-90°	4893.5	44.6
90°-120°	2871.2	26.2
90°-150°	5287.9	48.2
90°-180°	6085.0	55.4
0°-180°	10978.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1967	1945	1952	1945	1942	187
15°	1893	1873	1881	1874	1871	534
25°	1754	1733	1743	1724	1722	807
35°	1546	1527	1532	1512	1510	965
45°	1250	1234	1229	1207	1203	958
55°	819	806	800	787	784	734
65°	440	437	442	438	438	446
75°	238	238	238	239	239	251
85°	61	64	67	67	67	71
90°	2	6	13	14	13	7
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°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1968.8	1951.7	1956.7	1952.5	1943.2
5°	1966.8	1945.4	1951.7	1944.8	1941.5
7.5°	1951.7	1930.6	1936.8	1930.0	1928.1
10°	1938.2	1918.4	1924.7	1917.9	1914.6
12.5°	1923.3	1902.2	1909.9	1901.7	1898.4
15°	1892.7	1872.9	1880.9	1874.1	1870.8
17.5°	1859.0	1837.9	1845.8	1838.0	1833.7
20°	1832.0	1812.2	1820.2	1808.4	1806.7
22.5°	1802.3	1782.6	1790.5	1774.7	1774.4
25°	1754.5	1733.0	1742.7	1724.1	1722.4
27.5°	1697.5	1677.7	1685.7	1666.8	1664.8
30°	1658.4	1638.6	1646.6	1626.3	1623.0
32.5°	1613.9	1595.4	1602.1	1581.8	1579.9
35°	1545.5	1527.4	1532.0	1511.7	1510.1
37.5°	1467.6	1451.1	1453.8	1431.5	1429.9
40°	1412.3	1395.9	1397.2	1373.5	1371.9
42.5°	1351.7	1335.2	1333.8	1310.2	1308.5
45°	1250.5	1234.1	1228.6	1206.6	1203.4
47.5°	1135.3	1118.8	1108.6	1090.7	1088.4
50°	1051.7	1035.2	1026.4	1011.1	1006.2
52.5°	961.3	944.9	937.4	923.5	918.5
55°	819.1	805.9	800.5	787.0	783.7
57.5°	683.9	675.0	673.5	660.3	659.0
60°	601.7	596.7	596.6	584.8	584.8
62.5°	531.6	527.9	530.6	522.8	521.5
65°	439.9	436.6	441.6	438.2	438.2
67.5°	367.4	367.4	370.4	369.1	369.1
70°	327.0	327.0	328.6	328.6	328.6
72.5°	290.6	289.2	293.6	293.6	292.2
75°	237.6	237.6	237.6	239.3	239.3
77.5°	185.1	185.4	186.7	186.4	185.1
80°	150.0	151.6	151.7	150.0	150.0
82.5°	114.9	116.6	116.6	116.3	114.9
85°	60.7	64.0	67.4	67.4	67.4
87.5°	17.9	24.0	29.6	29.8	28.3
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)