

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: P564799

Luminaire Tested: **SQ4-PW1-075U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564799
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

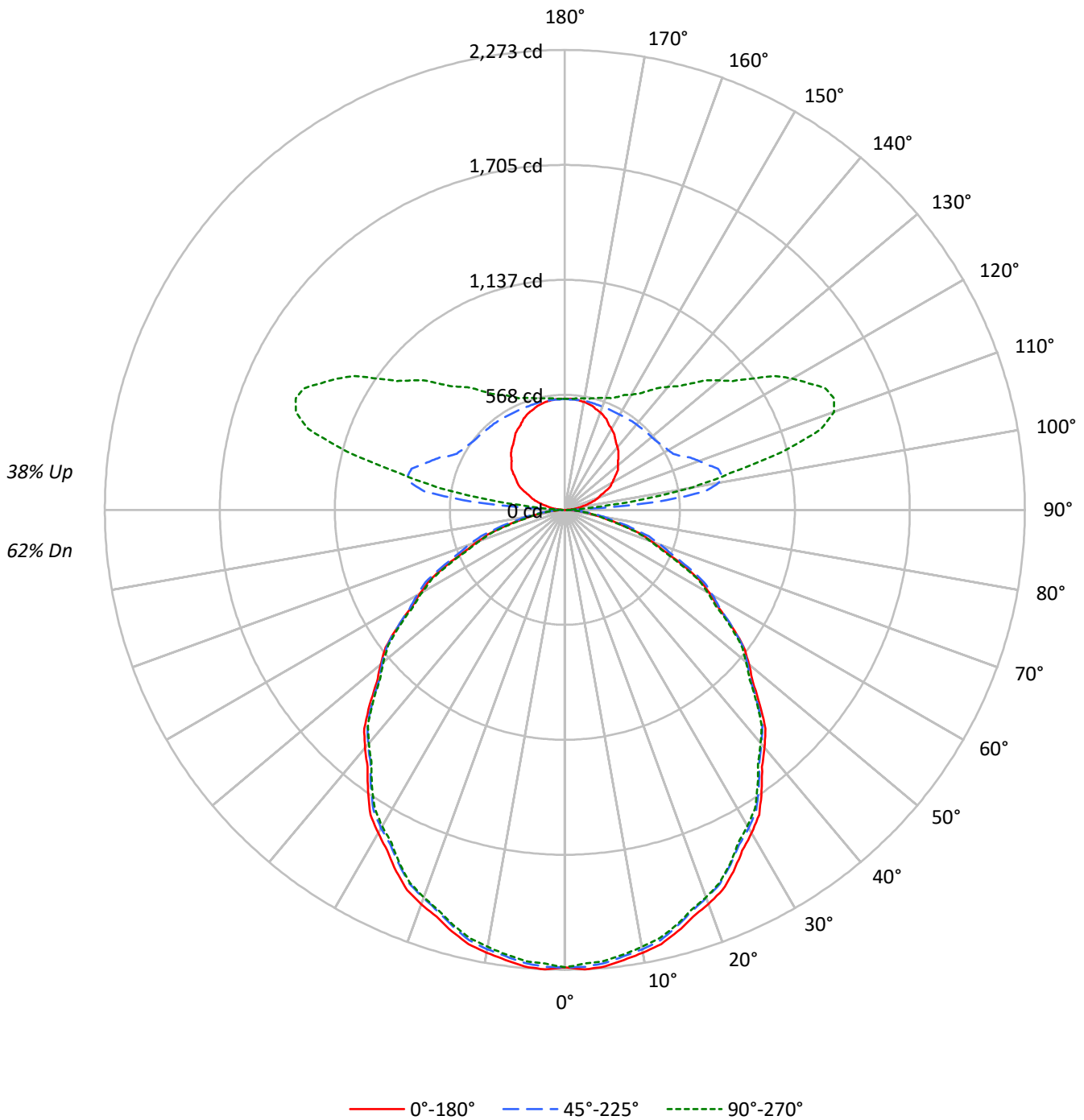
Lumens per Lamp: N/A
Luminaire Lumens: 9326.3 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13363	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12473
40°	12330	12138	12090
45°	11850	11694	11642
50°	11358	11264	11187
55°	10829	10829	10657
60°	10167	10364	9996
65°	9304	9769	9073
70°	8202	8990	7987
75°	7006	8047	6816
80°	5434	6773	5504
85°	3515	5201	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	2.3
10°-20°	601.0	6.4
20°-30°	891.4	9.6
30°-40°	1043.1	11.2
40°-50°	1038.4	11.1
50°-60°	896.7	9.6
60°-70°	645.5	6.9
70°-80°	338.5	3.6
80°-90°	85.3	0.9
90°-100°	258.7	2.8
100°-110°	711.8	7.6
110°-120°	734.7	7.9
120°-130°	588.6	6.3
130°-140°	462.3	5.0
140°-150°	354.3	3.8
150°-160°	254.7	2.7
160°-170°	155.8	1.7
170°-180°	52.5	0.6
0°-30°	1705.3	18.3
0°-40°	2748.4	29.5
0°-60°	4683.5	50.2
0°-90°	5752.8	61.7
90°-120°	1705.2	18.3
90°-150°	3110.5	33.4
90°-180°	3573.0	38.3
0°-180°	9326.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2266	2241	2249	2242	2239	215
15°	2157	2130	2133	2129	2125	608
25°	1972	1939	1936	1924	1930	907
35°	1695	1672	1671	1655	1661	1060
45°	1362	1351	1344	1340	1338	1051
55°	1010	1008	1010	996	994	901
65°	639	659	671	645	623	634
75°	295	322	339	316	287	316
85°	50	65	74	70	66	66
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2273.3	2254.6	2260.5	2255.5	2244.6
5°	2266.5	2241.2	2248.6	2242.5	2238.6
7.5°	2243.4	2220.0	2225.5	2219.1	2216.7
10°	2222.7	2199.3	2204.8	2196.7	2192.8
12.5°	2198.8	2173.9	2179.3	2171.3	2168.9
15°	2157.0	2129.7	2133.1	2129.0	2125.1
17.5°	2108.4	2080.7	2081.3	2074.9	2074.1
20°	2073.3	2044.1	2041.5	2033.6	2037.5
22.5°	2035.1	2004.3	2001.6	1990.6	1996.1
25°	1971.8	1938.6	1935.9	1924.1	1929.9
27.5°	1898.5	1865.7	1865.8	1849.2	1855.4
30°	1844.3	1813.1	1816.4	1796.7	1804.5
32.5°	1786.9	1758.9	1760.6	1740.9	1748.7
35°	1694.9	1671.5	1671.0	1655.2	1661.1
37.5°	1600.9	1580.3	1577.0	1567.9	1569.4
40°	1535.6	1518.1	1511.7	1505.7	1505.7
42.5°	1467.1	1451.1	1444.8	1440.3	1438.8
45°	1362.3	1350.6	1344.4	1340.4	1338.4
47.5°	1258.7	1247.8	1242.4	1239.6	1237.6
50°	1187.0	1179.2	1177.1	1171.1	1169.1
52.5°	1115.3	1110.7	1108.6	1101.0	1099.0
55°	1009.8	1007.8	1009.8	995.8	993.8
57.5°	899.8	903.0	909.4	890.6	885.9
60°	826.5	834.3	842.5	820.4	812.6
62.5°	751.7	764.1	775.6	750.2	739.3
65°	639.3	658.8	671.2	644.8	623.4
67.5°	531.0	555.1	570.0	541.6	517.4
70°	456.1	483.4	499.9	471.4	444.1
72.5°	390.8	421.1	434.6	407.7	380.4
75°	294.8	322.0	338.6	316.0	286.8
77.5°	209.1	234.8	248.6	228.9	204.7
80°	153.4	180.6	191.2	174.8	155.4
82.5°	108.7	131.3	138.6	128.8	115.5
85°	49.8	65.4	73.7	69.6	65.7
87.5°	13.0	24.6	31.9	32.4	34.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)