

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: P564556

Luminaire Tested: **SQ4-PW1-025U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564556
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

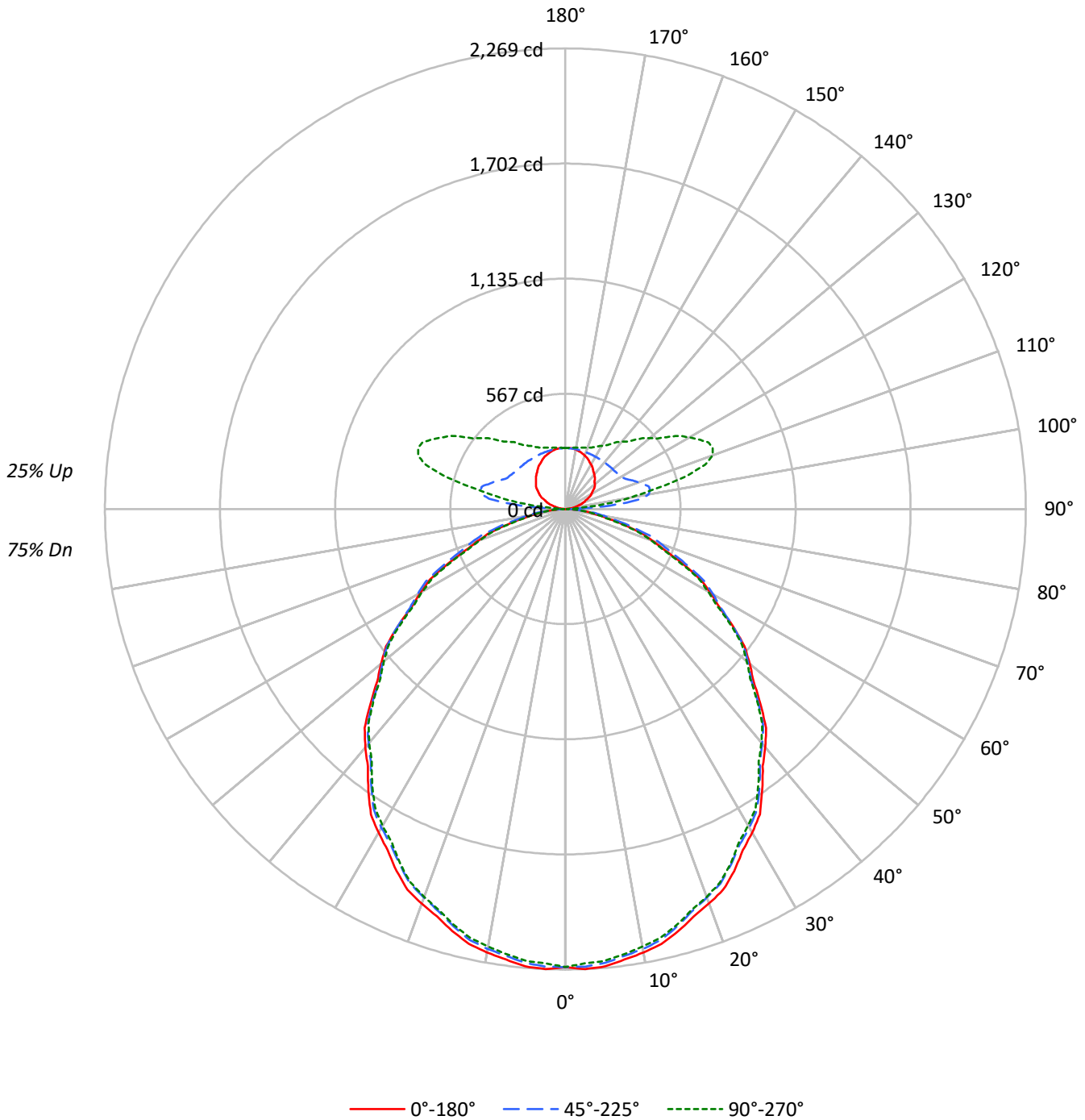
Lumens per Lamp: N/A
Luminaire Lumens: 7693.5 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10392	10308	10252
15°	10282	10168	10130
20°	10159	10003	9984
25°	10018	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9050
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7612	7758	7483
65°	6965	7312	6792
70°	6140	6730	5979
75°	5244	6023	5103
80°	4067	5069	4120
85°	2631	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	2.8
10°-20°	599.8	7.8
20°-30°	889.8	11.6
30°-40°	1041.1	13.5
40°-50°	1036.5	13.5
50°-60°	895.0	11.6
60°-70°	644.3	8.4
70°-80°	337.9	4.4
80°-90°	85.4	1.1
90°-100°	146.7	1.9
100°-110°	385.7	5.0
110°-120°	400.0	5.2
120°-130°	320.8	4.2
130°-140°	251.7	3.3
140°-150°	193.2	2.5
150°-160°	139.2	1.8
160°-170°	85.1	1.1
170°-180°	28.8	0.4
0°-30°	1702.1	22.1
0°-40°	2743.2	35.7
0°-60°	4674.7	60.8
0°-90°	5742.2	74.6
90°-120°	932.4	12.1
90°-150°	1698.2	22.1
90°-180°	1951.0	25.4
0°-180°	7693.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2262	2237	2244	2238	2234	214
15°	2153	2126	2129	2125	2121	607
25°	1968	1935	1932	1920	1926	905
35°	1692	1668	1668	1652	1658	1058
45°	1360	1348	1342	1338	1336	1049
55°	1008	1006	1008	994	992	899
65°	638	658	670	644	622	632
75°	294	321	338	315	286	315
85°	50	65	74	70	66	66
90°	2	6	15	8	8	3
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.3	2256.3	2256.3	2256.3	2256.3
2.5°	2269.0	2250.4	2256.3	2251.3	2240.4
5°	2262.3	2237.0	2244.4	2238.3	2234.4
7.5°	2239.2	2215.9	2221.3	2214.9	2212.6
10°	2218.5	2195.2	2200.6	2192.6	2188.7
12.5°	2194.7	2169.8	2175.2	2167.2	2164.9
15°	2152.9	2125.7	2129.1	2125.0	2121.1
17.5°	2104.4	2076.8	2077.4	2071.0	2070.2
20°	2069.4	2040.3	2037.6	2029.8	2033.7
22.5°	2031.3	2000.6	1997.9	1986.9	1992.3
25°	1968.1	1935.0	1932.3	1920.5	1926.3
27.5°	1894.9	1862.2	1862.3	1845.7	1852.0
30°	1840.8	1809.7	1813.0	1793.3	1801.1
32.5°	1783.6	1755.6	1757.3	1737.6	1745.4
35°	1691.7	1668.4	1667.9	1652.1	1657.9
37.5°	1597.9	1577.3	1574.0	1564.9	1566.5
40°	1532.7	1515.2	1508.8	1502.9	1502.9
42.5°	1464.3	1448.4	1442.0	1437.6	1436.1
45°	1359.7	1348.1	1341.9	1337.8	1335.9
47.5°	1256.4	1245.5	1240.1	1237.2	1235.3
50°	1184.8	1177.0	1174.9	1168.9	1166.9
52.5°	1113.2	1108.6	1106.5	1098.9	1096.9
55°	1007.9	1005.9	1007.9	993.9	992.0
57.5°	898.1	901.3	907.7	888.9	884.2
60°	825.0	832.8	840.9	818.9	811.1
62.5°	750.2	762.7	774.1	748.8	737.9
65°	638.1	657.6	669.9	643.6	622.2
67.5°	530.0	554.1	568.9	540.6	516.5
70°	455.2	482.4	499.0	470.5	443.3
72.5°	390.0	420.4	433.8	406.9	379.7
75°	294.2	321.4	337.9	315.4	286.3
77.5°	208.7	234.4	248.1	228.5	204.4
80°	153.1	180.3	190.8	174.5	155.1
82.5°	108.5	131.1	138.4	128.5	115.3
85°	49.7	65.2	73.6	69.5	65.6
87.5°	13.1	24.7	33.3	31.8	33.4
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)