

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: P564723

Luminaire Tested: **SQ4-PW1-075U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564723
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-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

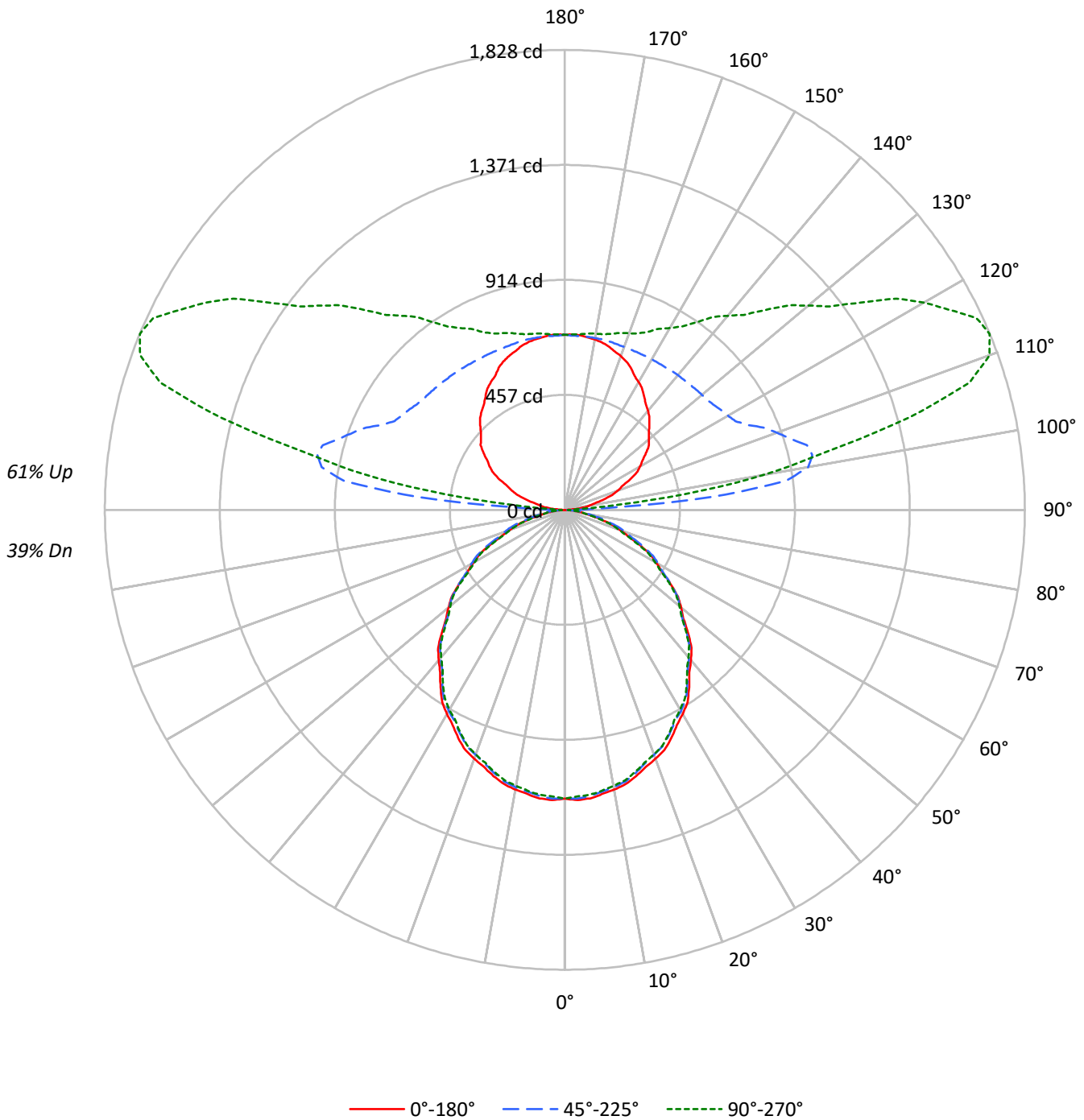
Lumens per Lamp: N/A
Luminaire Lumens: 7458.8 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6773
25°	6797	6673	6652
30°	6653	6553	6509
35°	6464	6373	6335
40°	6262	6165	6141
45°	6019	5939	5913
50°	5769	5720	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4608
70°	4167	4566	4057
75°	3558	4088	3463
80°	2759	3439	2795
85°	1785	2639	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.4
10°-20°	305.2	4.1
20°-30°	452.8	6.1
30°-40°	529.8	7.1
40°-50°	527.4	7.1
50°-60°	455.5	6.1
60°-70°	327.8	4.4
70°-80°	171.9	2.3
80°-90°	44.4	0.6
90°-100°	328.4	4.4
100°-110°	903.5	12.1
110°-120°	932.6	12.5
120°-130°	747.2	10.0
130°-140°	586.8	7.9
140°-150°	449.7	6.0
150°-160°	323.3	4.3
160°-170°	197.7	2.7
170°-180°	66.6	0.9
0°-30°	866.1	11.6
0°-40°	1395.9	18.7
0°-60°	2378.8	31.9
0°-90°	2923.0	39.2
90°-120°	2164.4	29.0
90°-150°	3948.2	52.9
90°-180°	4536.0	60.8
0°-180°	7458.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1151	1138	1142	1139	1137	109
15°	1096	1082	1083	1081	1079	309
25°	1002	985	983	977	980	460
35°	861	849	849	841	844	538
45°	692	686	683	681	680	534
55°	513	512	513	506	505	458
65°	325	335	341	328	317	322
75°	150	164	172	160	146	160
85°	25	33	37	35	33	33
90°	2	6	10	13	13	4
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.1	1148.1	1148.1	1148.1	1148.1
2.5°	1154.6	1145.1	1148.1	1145.6	1140.0
5°	1151.2	1138.3	1142.1	1139.0	1137.0
7.5°	1139.4	1127.6	1130.3	1127.1	1125.9
10°	1128.9	1117.1	1119.8	1115.7	1113.7
12.5°	1116.8	1104.1	1106.9	1102.8	1101.6
15°	1095.5	1081.7	1083.4	1081.3	1079.4
17.5°	1070.9	1056.8	1057.1	1053.9	1053.5
20°	1053.1	1038.2	1036.9	1032.9	1034.8
22.5°	1033.6	1018.0	1016.6	1011.0	1013.8
25°	1001.5	984.6	983.3	977.3	980.2
27.5°	964.2	947.6	947.6	939.2	942.4
30°	936.7	920.9	922.6	912.5	916.5
32.5°	907.6	893.3	894.2	884.2	888.2
35°	860.9	849.0	848.7	840.7	843.7
37.5°	813.1	802.6	801.0	796.3	797.1
40°	779.9	771.0	767.8	764.8	764.8
42.5°	745.1	737.0	733.8	731.6	730.8
45°	691.9	686.0	682.8	680.8	679.8
47.5°	639.3	633.8	631.0	629.6	628.6
50°	602.9	598.9	597.8	594.8	593.8
52.5°	566.5	564.1	563.0	559.2	558.2
55°	512.9	511.9	512.9	505.8	504.8
57.5°	457.0	458.6	461.9	452.3	449.9
60°	419.8	423.8	427.9	416.7	412.7
62.5°	381.8	388.1	393.9	381.0	375.5
65°	324.7	334.6	340.9	327.5	316.6
67.5°	269.7	282.0	289.5	275.1	262.8
70°	231.7	245.5	253.9	239.4	225.6
72.5°	198.5	213.9	220.7	207.1	193.2
75°	149.7	163.6	172.0	160.5	145.7
77.5°	106.2	119.3	126.2	116.3	104.0
80°	77.9	91.7	97.1	88.8	78.9
82.5°	55.2	66.7	70.4	65.4	58.7
85°	25.3	33.2	37.4	35.4	33.4
87.5°	6.8	13.2	17.4	18.1	18.9
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)