

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: P563379

Luminaire Tested: **SQ4-PP3-075U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563379
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

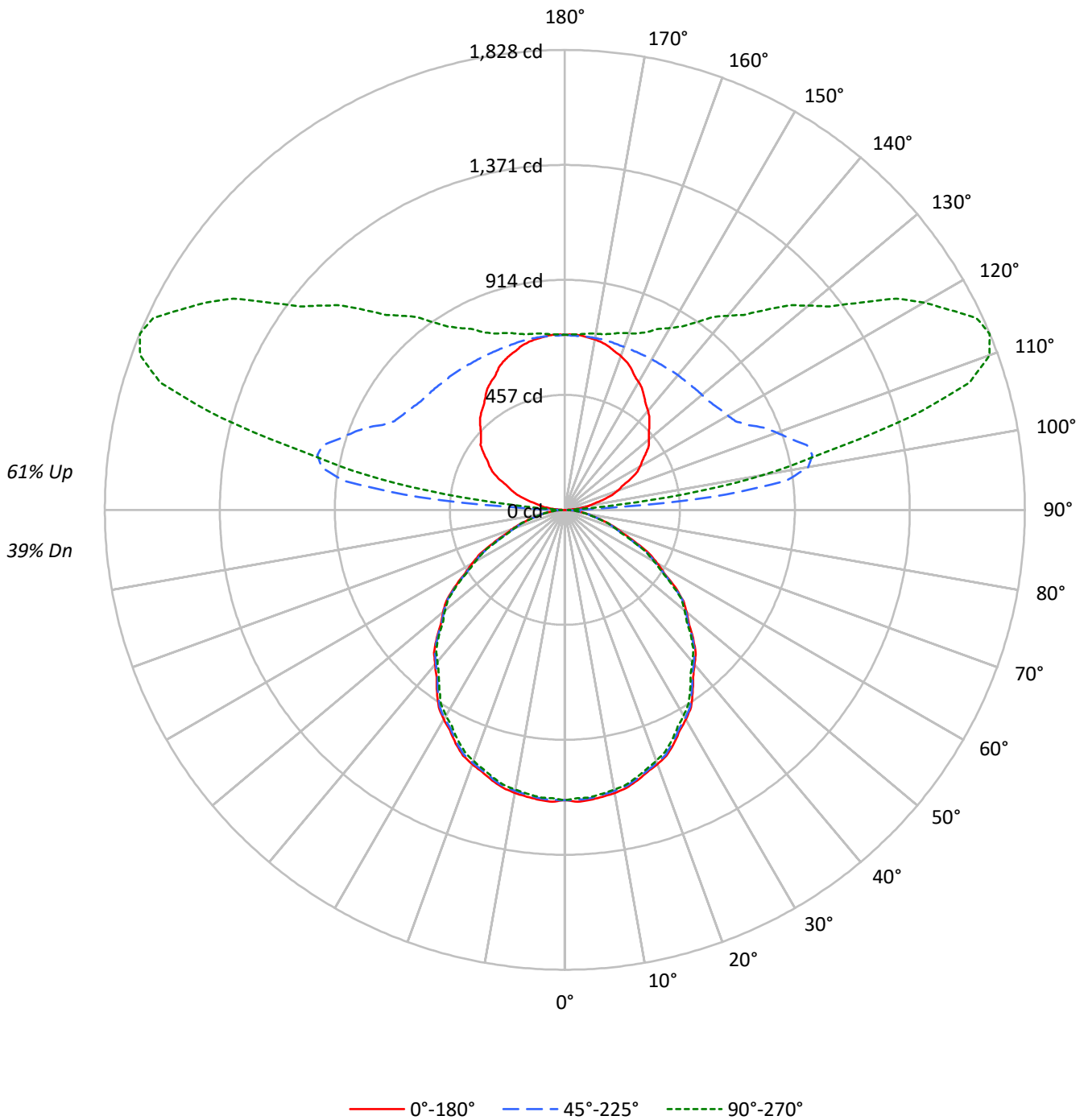
Lumens per Lamp: N/A
Luminaire Lumens: 7491.1 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7097	7097	7097
5°	7150	7106	7081
10°	7138	7087	7056
15°	7091	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6219	6158
50°	6039	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4592	4401	4387
70°	3965	3802	3802
75°	3413	3365	3318
80°	3011	3046	2972
85°	2357	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.5
10°-20°	311.6	4.2
20°-30°	466.7	6.2
30°-40°	547.4	7.3
40°-50°	549.1	7.3
50°-60°	468.4	6.3
60°-70°	305.5	4.1
70°-80°	153.3	2.0
80°-90°	44.2	0.6
90°-100°	328.4	4.4
100°-110°	903.5	12.1
110°-120°	932.6	12.4
120°-130°	747.2	10.0
130°-140°	586.8	7.8
140°-150°	449.7	6.0
150°-160°	323.3	4.3
160°-170°	197.7	2.6
170°-180°	66.6	0.9
0°-30°	887.4	11.8
0°-40°	1434.7	19.2
0°-60°	2452.3	32.7
0°-90°	2955.2	39.4
90°-120°	2164.4	28.9
90°-150°	3948.2	52.7
90°-180°	4536.0	60.6
0°-180°	7491.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1158	1147	1151	1147	1147	110
15°	1114	1103	1107	1103	1101	314
25°	1026	1014	1018	1009	1008	472
35°	886	877	880	870	869	553
45°	720	715	715	708	708	554
55°	534	532	527	524	523	475
65°	316	310	302	300	301	315
75°	144	144	142	141	140	156
85°	33	36	36	36	36	39
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°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1161.2	1151.7	1153.9	1152.2	1147.5
5°	1158.0	1147.1	1150.9	1146.9	1146.9
7.5°	1150.1	1138.2	1142.0	1138.0	1137.8
10°	1142.8	1130.9	1134.7	1130.7	1129.7
12.5°	1132.3	1120.4	1125.0	1120.2	1120.0
15°	1113.5	1102.6	1107.4	1103.3	1101.3
17.5°	1092.2	1080.4	1086.2	1080.5	1079.7
20°	1076.1	1064.2	1070.0	1061.9	1061.9
22.5°	1056.6	1044.8	1051.4	1040.9	1040.9
25°	1025.5	1013.6	1018.4	1009.3	1008.3
27.5°	988.5	976.8	981.8	971.5	971.3
30°	961.8	950.9	956.7	945.6	944.6
32.5°	932.7	922.6	926.8	915.6	914.7
35°	885.9	877.0	879.9	869.7	868.7
37.5°	836.8	827.7	830.9	822.2	821.8
40°	802.0	796.1	796.9	789.8	787.8
42.5°	769.6	762.9	763.8	756.7	756.3
45°	720.1	715.1	715.0	707.9	707.9
47.5°	667.5	663.7	662.6	656.8	656.6
50°	631.1	628.1	627.0	621.9	621.0
52.5°	593.0	591.7	588.2	583.9	583.7
55°	534.0	532.0	526.9	523.9	522.9
57.5°	469.9	465.9	460.2	455.7	456.5
60°	423.8	419.8	411.6	409.6	409.6
62.5°	379.3	374.5	366.3	363.5	365.1
65°	315.5	309.6	302.4	300.4	301.4
67.5°	257.7	252.3	244.5	244.5	243.7
70°	220.5	217.5	211.4	211.4	211.4
72.5°	187.3	185.9	181.4	181.4	180.6
75°	143.6	143.6	141.6	140.6	139.6
77.5°	107.6	108.0	107.0	105.9	104.2
80°	85.0	86.9	86.0	84.9	83.9
82.5°	63.9	65.9	65.7	63.9	63.7
85°	33.4	36.3	36.4	36.4	36.4
87.5°	9.2	13.2	15.0	15.6	16.4
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)