

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: P564064

Luminaire Tested: **SQ4-PR1-075U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

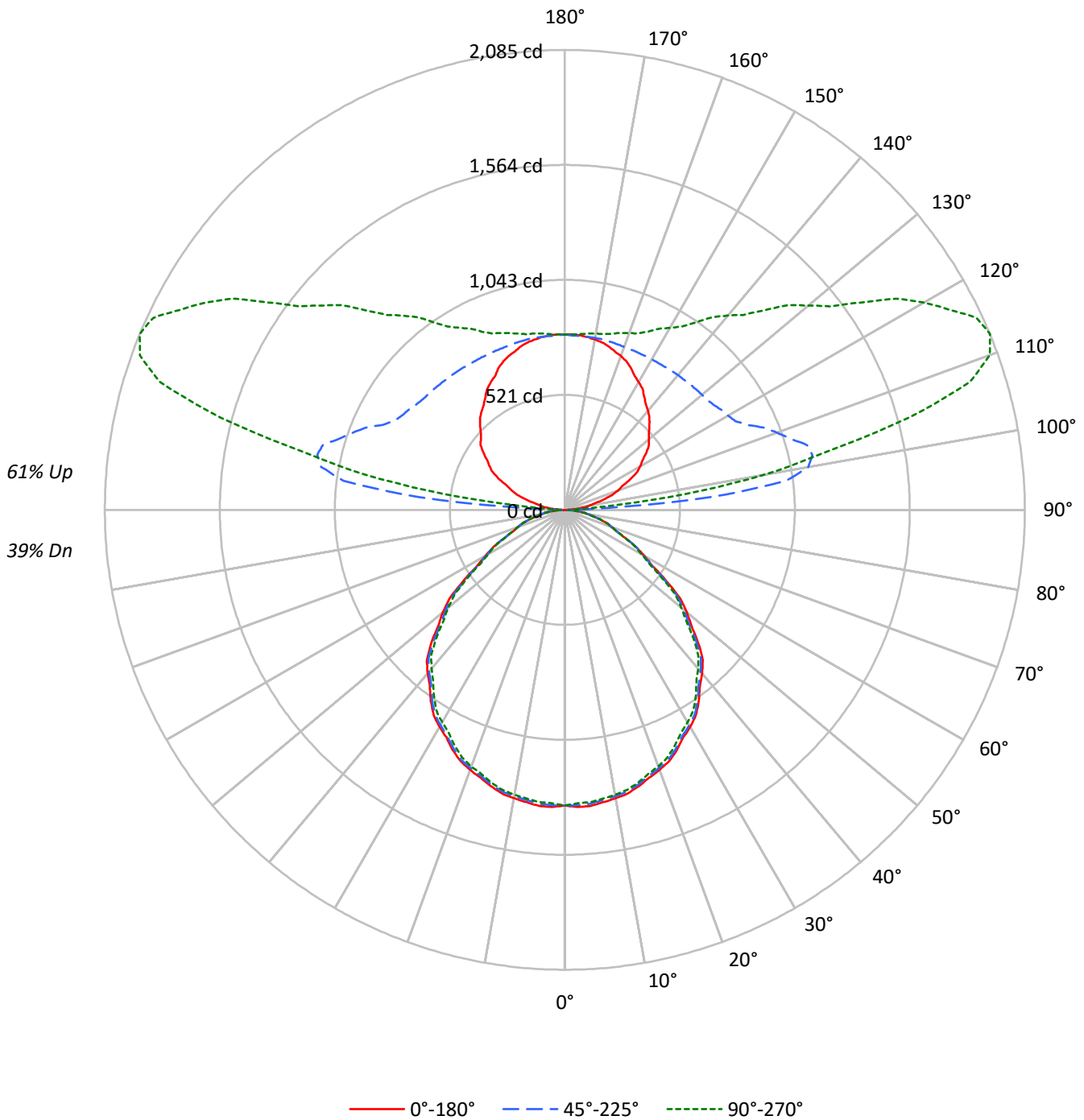
Lumens per Lamp: N/A
Luminaire Lumens: 8528.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6182	6182	6182
5°	6238	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6051	6008	5922
35°	5962	5909	5825
40°	5826	5763	5659
45°	5588	5490	5377
50°	5169	5045	4946
55°	4512	4410	4317
60°	3802	3770	3696
65°	3289	3301	3276
70°	3020	3036	3036
75°	2902	2902	2921
80°	2728	2760	2728
85°	2202	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.5
10°-20°	362.6	4.3
20°-30°	546.9	6.4
30°-40°	651.7	7.6
40°-50°	642.5	7.5
50°-60°	491.0	5.8
60°-70°	303.9	3.6
70°-80°	172.6	2.0
80°-90°	54.5	0.6
90°-100°	374.7	4.4
100°-110°	1031.0	12.1
110°-120°	1064.2	12.5
120°-130°	852.6	10.0
130°-140°	669.7	7.9
140°-150°	513.2	6.0
150°-160°	369.0	4.3
160°-170°	225.6	2.6
170°-180°	76.1	0.9
0°-30°	1036.3	12.2
0°-40°	1687.9	19.8
0°-60°	2821.5	33.1
0°-90°	3352.4	39.3
90°-120°	2470.0	29.0
90°-150°	4505.5	52.8
90°-180°	5176.0	60.7
0°-180°	8528.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1347	1332	1337	1332	1330	128
15°	1296	1283	1288	1284	1281	366
25°	1202	1187	1194	1181	1180	553
35°	1059	1046	1049	1035	1034	661
45°	856	845	842	826	824	656
55°	561	552	548	539	537	503
65°	301	299	302	300	300	305
75°	163	163	163	164	164	172
85°	42	44	46	46	46	48
90°	2	7	12	15	15	5
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1348.5	1336.8	1340.2	1337.3	1331.0
5°	1347.1	1332.5	1336.8	1332.1	1329.8
7.5°	1336.8	1322.3	1326.6	1321.9	1320.6
10°	1327.5	1314.0	1318.3	1313.6	1311.4
12.5°	1317.4	1302.9	1308.1	1302.5	1300.3
15°	1296.4	1282.8	1288.3	1283.6	1281.3
17.5°	1273.3	1258.8	1264.3	1258.9	1256.0
20°	1254.8	1241.3	1246.7	1238.6	1237.5
22.5°	1234.5	1220.9	1226.4	1215.5	1215.3
25°	1201.7	1187.0	1193.6	1180.9	1179.8
27.5°	1162.7	1149.1	1154.6	1141.6	1140.3
30°	1135.9	1122.4	1127.8	1113.9	1111.7
32.5°	1105.4	1092.8	1097.3	1083.5	1082.1
35°	1058.6	1046.1	1049.3	1035.4	1034.3
37.5°	1005.2	993.9	995.8	980.5	979.4
40°	967.4	956.1	957.0	940.8	939.7
42.5°	925.8	914.5	913.6	897.4	896.2
45°	856.5	845.3	841.5	826.5	824.2
47.5°	777.6	766.3	759.3	747.1	745.5
50°	720.3	709.0	703.0	692.5	689.2
52.5°	658.5	647.2	642.1	632.5	629.1
55°	561.0	552.0	548.3	539.0	536.8
57.5°	468.4	462.3	461.3	452.3	451.4
60°	412.1	408.7	408.6	400.6	400.6
62.5°	364.1	361.6	363.4	358.1	357.2
65°	301.3	299.0	302.4	300.1	300.1
67.5°	251.7	251.7	253.7	252.8	252.8
70°	223.9	223.9	225.1	225.1	225.1
72.5°	199.0	198.1	201.1	201.1	200.2
75°	162.8	162.8	162.8	163.9	163.9
77.5°	126.7	127.0	127.9	127.7	126.7
80°	102.7	103.9	103.9	102.7	102.7
82.5°	78.7	79.9	79.9	79.6	78.7
85°	41.6	43.8	46.2	46.2	46.2
87.5°	12.3	16.9	20.8	21.5	20.6
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)