

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: P519008

Luminaire Tested: **SQ4-WB-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519008
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

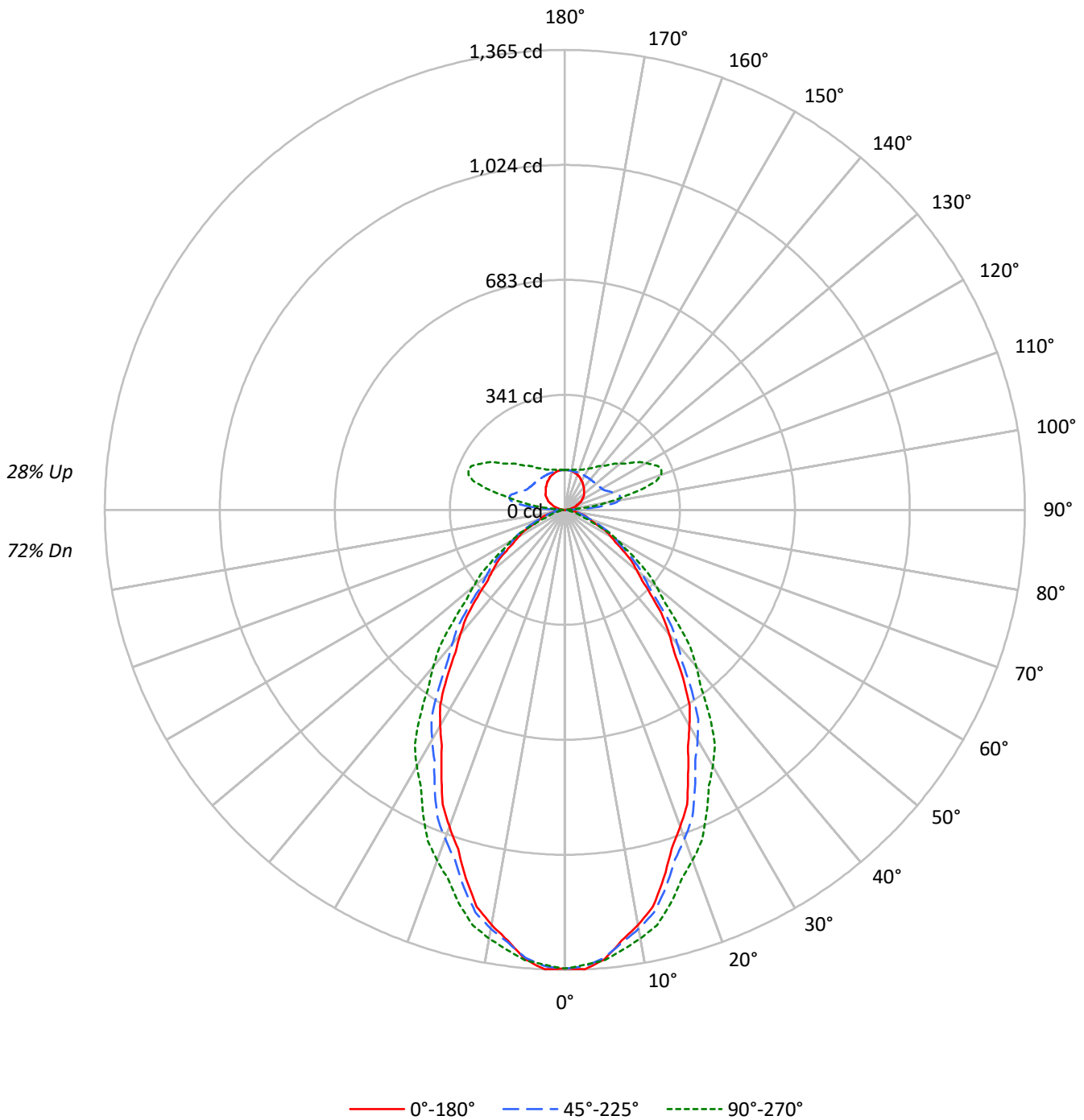
Lumens per Lamp: N/A
Luminaire Lumens: 2753.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	0
RCR																		
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12361	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9293	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3242	3351
65°	2310	2727	2166
70°	2047	2128	1322
75°	1896	1725	809
80°	1748	1589	696
85°	1577	1450	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	4.5
10°-20°	324.9	11.8
20°-30°	420.8	15.3
30°-40°	412.0	15.0
40°-50°	315.4	11.5
50°-60°	210.2	7.6
60°-70°	114.7	4.2
70°-80°	47.8	1.7
80°-90°	14.2	0.5
90°-100°	57.8	2.1
100°-110°	151.9	5.5
110°-120°	157.6	5.7
120°-130°	126.4	4.6
130°-140°	99.2	3.6
140°-150°	76.1	2.8
150°-160°	54.8	2.0
160°-170°	33.5	1.2
170°-180°	11.3	0.4
0°-30°	870.5	31.6
0°-40°	1282.6	46.6
0°-60°	1808.1	65.7
0°-90°	1984.8	72.1
90°-120°	367.3	13.3
90°-150°	669.0	24.3
90°-180°	769.0	27.9
0°-180°	2753.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1340	1326	1335	1338	1342	125
15°	1133	1129	1159	1191	1211	316
25°	866	868	913	953	995	398
35°	612	615	656	700	750	380
45°	367	374	398	429	468	286
55°	211	220	232	241	261	191
65°	106	114	125	109	99	110
75°	53	53	48	33	23	57
85°	15	15	14	9	5	16
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1365.0	1352.8	1355.9	1355.8	1352.1
5°	1339.5	1326.1	1334.7	1337.8	1342.5
7.5°	1289.8	1279.6	1295.4	1307.1	1316.6
10°	1251.1	1242.3	1262.4	1279.5	1291.7
12.5°	1206.2	1198.8	1223.7	1246.6	1262.6
15°	1132.8	1128.7	1159.1	1190.6	1211.1
17.5°	1054.3	1052.3	1087.2	1124.0	1150.1
20°	1000.8	1000.2	1038.4	1076.7	1107.1
22.5°	946.7	948.0	988.2	1028.1	1062.7
25°	865.7	868.1	912.9	952.7	994.8
27.5°	790.8	791.9	838.2	880.3	925.1
30°	739.7	742.6	788.1	831.5	878.3
32.5°	688.5	691.9	736.4	781.4	829.0
35°	611.8	614.7	656.0	700.2	749.8
37.5°	532.7	536.7	573.3	615.1	663.9
40°	481.6	487.4	519.8	559.1	607.0
42.5°	432.3	439.6	469.6	506.9	550.1
45°	366.8	373.9	398.5	428.7	467.8
47.5°	310.4	318.5	337.4	363.4	396.8
50°	278.4	286.0	303.5	322.8	354.3
52.5°	250.2	257.8	273.4	288.2	315.1
55°	210.9	219.7	232.4	241.2	261.1
57.5°	178.6	187.1	197.2	201.1	213.2
60°	157.1	166.5	175.7	175.2	181.6
62.5°	137.5	145.5	154.6	148.3	148.6
65°	105.8	114.5	124.9	109.1	99.2
67.5°	85.4	87.3	98.0	76.1	64.3
70°	75.9	75.9	78.9	58.9	49.0
72.5°	66.8	66.8	64.0	47.9	37.5
75°	53.2	53.2	48.4	33.2	22.7
77.5°	41.0	40.5	37.0	24.8	16.5
80°	32.9	32.9	29.9	19.6	13.1
82.5°	25.7	25.7	23.2	15.3	9.8
85°	14.9	14.9	13.7	8.9	5.4
87.5°	5.4	5.7	6.0	3.5	3.0
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)