

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: P519296

Luminaire Tested: **SQ4-WB-0U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519296
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

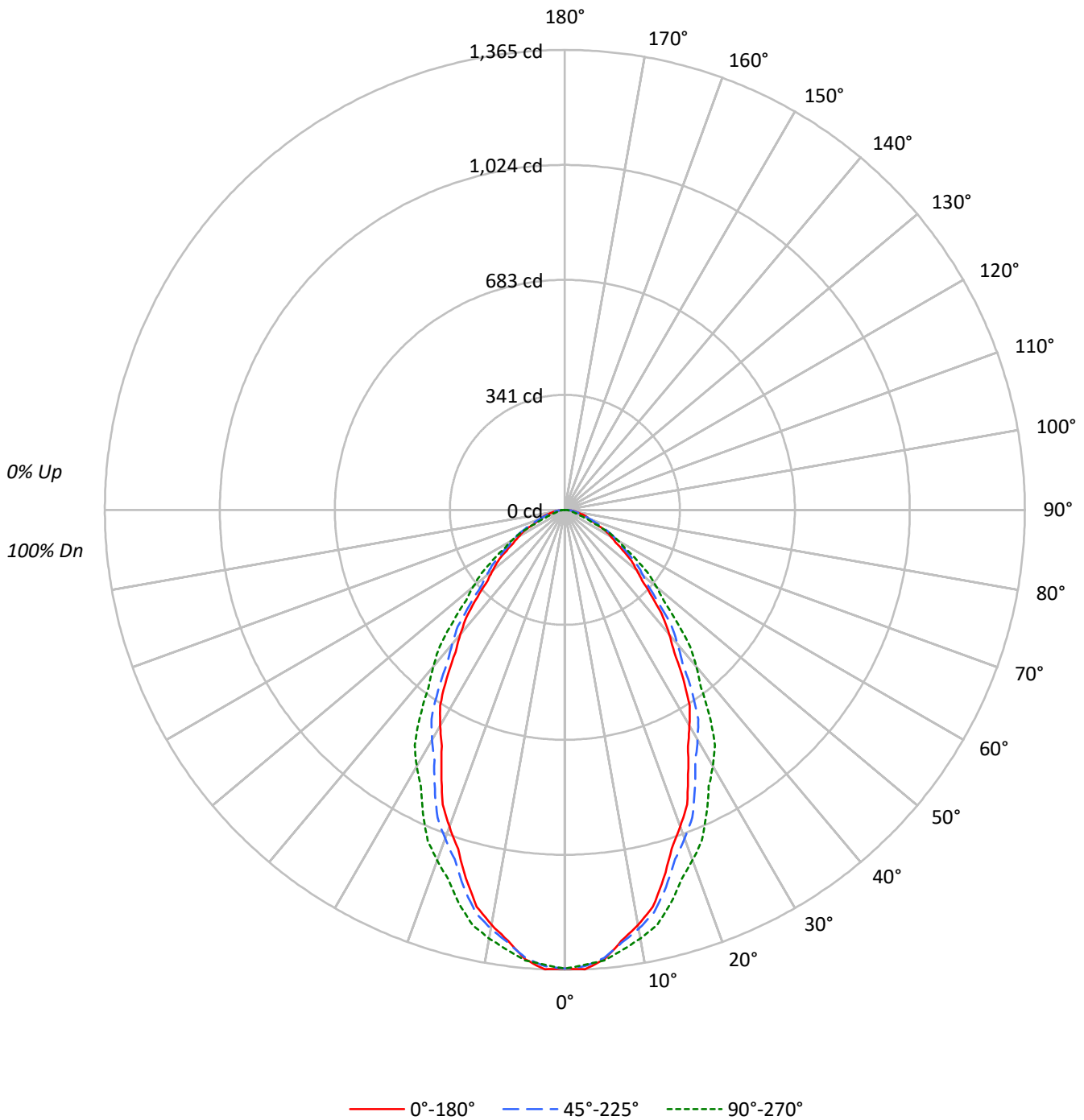
Lumens per Lamp: N/A
Luminaire Lumens: 1984.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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	6.3
10°-20°	324.9	16.4
20°-30°	420.8	21.2
30°-40°	412.0	20.8
40°-50°	315.4	15.9
50°-60°	210.2	10.6
60°-70°	114.7	5.8
70°-80°	47.8	2.4
80°-90°	13.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	870.5	43.9
0°-40°	1282.6	64.6
0°-60°	1808.1	91.1
0°-90°	1984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.1	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	17
90°	0	0	0	0	0	

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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°	5.3	5.3	4.8	2.9	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)