

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: P518632

Luminaire Tested: **SQ4-BB-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518632
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

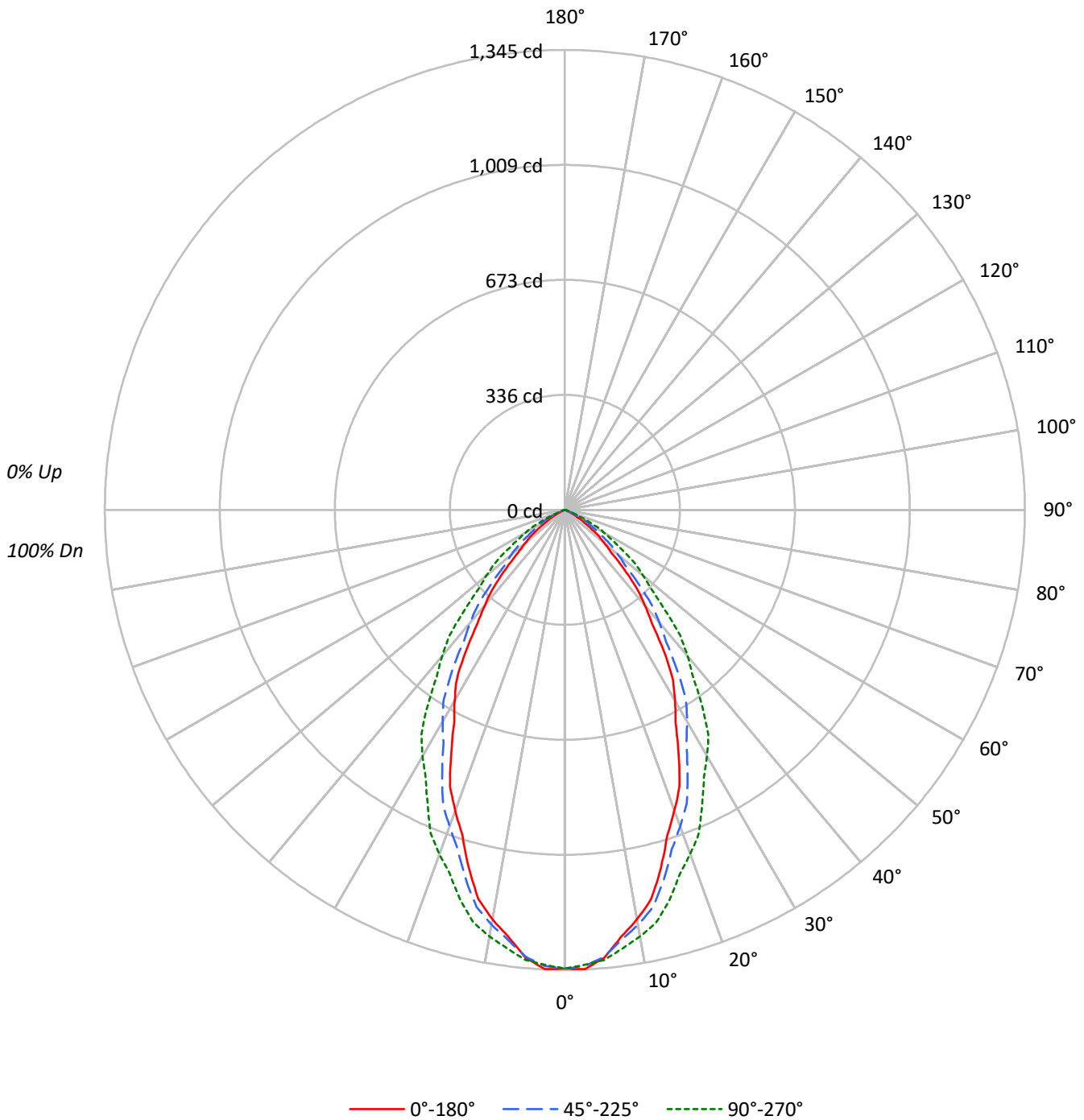
Lumens per Lamp: N/A
Luminaire Lumens: 1600.3 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12377	12377	12377
5°	12178	12148	12238
10°	11394	11547	11869
15°	10359	10687	11282
20°	9195	9673	10520
25°	8008	8642	9666
30°	6859	7613	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3159	3912	5403
50°	2152	2915	4284
55°	1399	2109	3330
60°	803	1485	2408
65°	212	906	1218
70°	105	281	351
75°	46	21	0
80°	32	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	7.7
10°-20°	313.1	19.6
20°-30°	392.0	24.5
30°-40°	362.0	22.6
40°-50°	243.3	15.2
50°-60°	125.7	7.9
60°-70°	39.3	2.5
70°-80°	2.5	0.2
80°-90°	0.0	0.0
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°	827.5	51.7
0°-40°	1189.5	74.3
0°-60°	1558.4	97.4
0°-90°	1600.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1315	1302	1312	1316	1321	122
15°	1084	1081	1119	1156	1181	302
25°	787	793	849	907	950	361
35°	505	518	574	641	700	313
45°	242	257	300	358	414	190
55°	87	102	131	168	207	81
65°	10	19	42	50	56	16
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1344.6	1331.9	1335.3	1335.2	1331.6
5°	1314.9	1301.6	1311.7	1316.3	1321.4
7.5°	1259.3	1248.9	1268.3	1282.8	1293.3
10°	1216.2	1207.4	1232.5	1252.3	1266.9
12.5°	1166.4	1159.5	1189.9	1217.1	1235.7
15°	1084.5	1080.7	1118.9	1156.5	1181.2
17.5°	996.8	996.6	1040.2	1086.9	1116.7
20°	936.5	938.4	985.2	1036.6	1071.5
22.5°	876.3	880.7	930.7	984.3	1024.3
25°	786.6	792.9	848.9	907.0	949.5
27.5°	700.4	709.7	768.6	828.9	880.7
30°	643.8	654.6	714.6	778.1	831.4
32.5°	588.3	601.1	659.5	726.7	781.0
35°	504.9	517.6	573.7	641.3	699.6
37.5°	418.9	431.3	486.1	552.6	615.7
40°	362.8	376.8	429.0	493.4	557.5
42.5°	311.9	325.9	375.0	438.3	498.8
45°	242.1	256.7	299.8	358.2	414.1
47.5°	184.2	200.1	237.9	290.7	341.6
50°	149.9	165.8	203.1	249.7	298.5
52.5°	122.4	137.8	171.5	215.3	260.1
55°	87.0	101.6	131.1	168.3	207.0
57.5°	60.1	72.7	99.2	130.2	160.6
60°	43.5	55.5	80.5	105.7	130.5
62.5°	28.9	40.0	64.4	83.7	100.3
65°	9.7	18.6	41.5	50.1	55.8
67.5°	4.9	5.9	21.8	23.0	24.9
70°	3.9	3.9	10.4	11.1	13.0
72.5°	2.9	2.9	4.2	5.3	5.7
75°	1.3	1.3	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)