

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: P518345

Luminaire Tested: **SQ4-BB-025U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518345
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

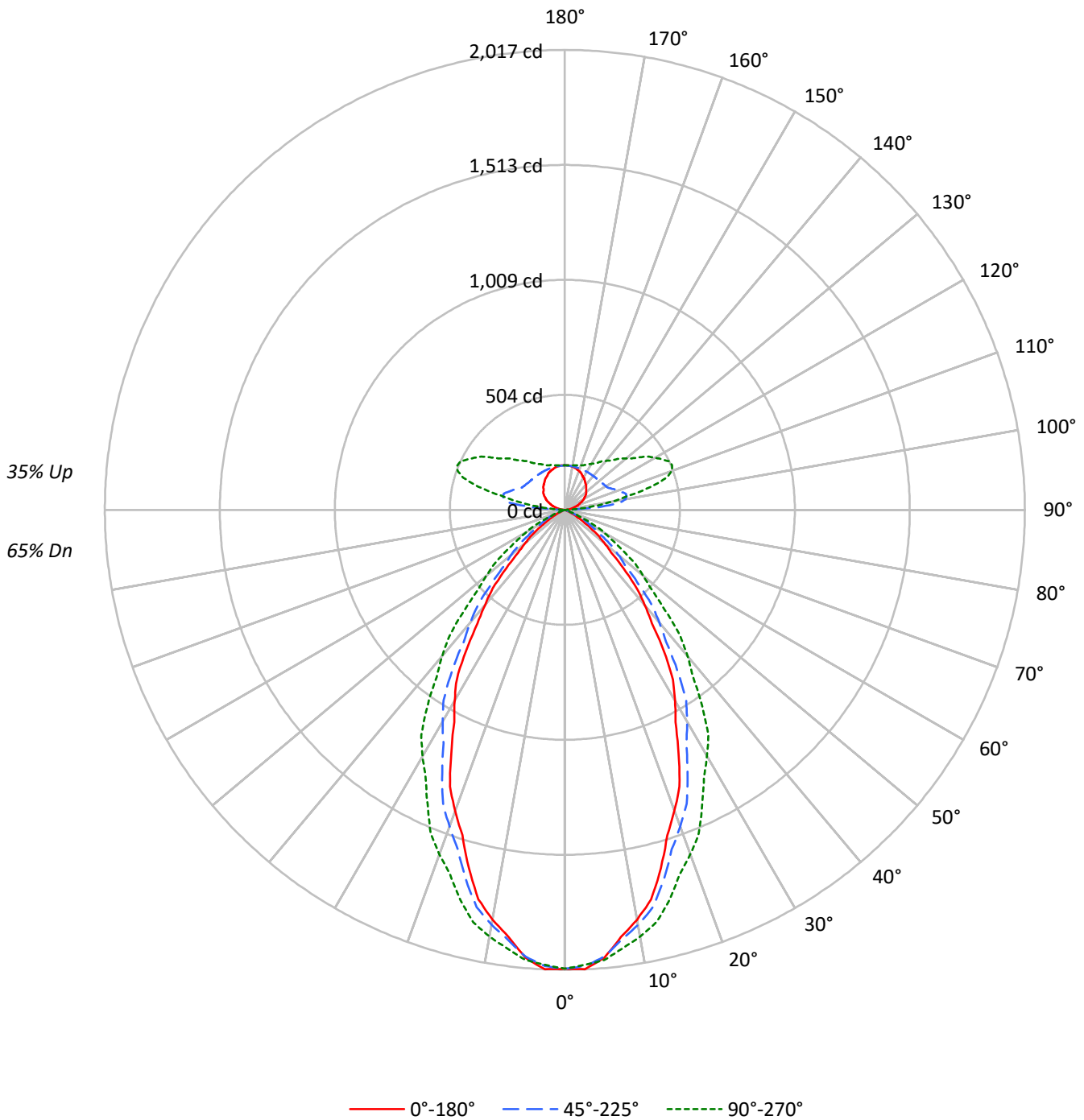
Lumens per Lamp: N/A
Luminaire Lumens: 3666.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	104	100	97	94	97	95	92	89	84	82	80	75	73	72	66	65	64	60
2	96	90	85	81	91	85	81	77	77	73	70	68	66	64	61	59	58	54
3	90	82	75	70	84	77	72	68	70	66	62	63	60	57	56	54	52	49
4	83	74	67	62	79	70	64	60	64	59	55	58	54	51	52	49	47	44
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	41	39	37
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34
8	63	52	45	41	60	50	44	39	46	41	37	42	38	35	39	35	33	31
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	36	33	30	29
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12377	12377	12377
5°	12178	12148	12238
10°	11395	11546	11869
15°	10358	10687	11282
20°	9195	9673	10521
25°	8008	8642	9666
30°	6859	7612	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3158	3913	5403
50°	2152	2916	4285
55°	1399	2109	3331
60°	802	1485	2407
65°	212	907	1218
70°	104	281	351
75°	45	24	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	5.0
10°-20°	469.6	12.8
20°-30°	587.9	16.0
30°-40°	543.1	14.8
40°-50°	364.9	10.0
50°-60°	188.5	5.1
60°-70°	59.0	1.6
70°-80°	3.7	0.1
80°-90°	1.1	0.0
90°-100°	95.1	2.6
100°-110°	250.1	6.8
110°-120°	259.3	7.1
120°-130°	208.0	5.7
130°-140°	163.2	4.5
140°-150°	125.3	3.4
150°-160°	90.2	2.5
160°-170°	55.2	1.5
170°-180°	18.6	0.5
0°-30°	1241.2	33.9
0°-40°	1784.2	48.7
0°-60°	2337.6	63.8
0°-90°	2401.5	65.5
90°-120°	604.6	16.5
90°-150°	1101.1	30.0
90°-180°	1265.0	34.5
0°-180°	3666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	1972	1952	1968	1974	1982	183
15°	1627	1621	1678	1735	1772	453
25°	1180	1189	1273	1360	1424	541
35°	757	776	861	962	1050	469
45°	363	385	450	537	621	285
55°	130	152	197	252	311	122
65°	15	28	62	75	84	25
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	4	10	5	5	1
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.3	2012.3	2012.3	2012.3	2012.3
2.5°	2016.9	1997.9	2002.9	2002.8	1997.5
5°	1972.3	1952.4	1967.5	1974.5	1982.1
7.5°	1889.0	1873.4	1902.4	1924.2	1940.0
10°	1824.4	1811.0	1848.7	1878.4	1900.3
12.5°	1749.6	1739.3	1784.8	1825.6	1853.6
15°	1626.7	1621.0	1678.3	1734.7	1771.8
17.5°	1495.1	1494.9	1560.4	1630.3	1675.0
20°	1404.8	1407.6	1477.8	1554.9	1607.3
22.5°	1314.4	1321.1	1396.0	1476.4	1536.4
25°	1179.9	1189.4	1273.4	1360.5	1424.3
27.5°	1050.6	1064.5	1152.8	1243.4	1321.1
30°	965.7	981.9	1071.8	1167.1	1247.1
32.5°	882.4	901.6	989.3	1090.0	1171.5
35°	757.4	776.4	860.6	961.9	1049.5
37.5°	628.3	647.0	729.2	828.9	923.5
40°	544.2	565.1	643.5	740.1	836.3
42.5°	467.9	488.8	562.5	657.4	748.2
45°	363.1	385.0	449.8	537.3	621.1
47.5°	276.3	300.1	356.9	436.1	512.5
50°	224.9	248.7	304.7	374.5	447.8
52.5°	183.6	206.6	257.2	323.0	390.2
55°	130.5	152.3	196.7	252.5	310.6
57.5°	90.1	109.0	148.8	195.3	240.8
60°	65.2	83.3	120.7	158.6	195.7
62.5°	43.4	60.0	96.6	125.6	150.5
65°	14.6	27.9	62.3	75.2	83.7
67.5°	7.4	8.9	32.7	34.5	37.4
70°	5.8	5.8	15.6	16.6	19.5
72.5°	4.3	4.3	6.2	8.0	8.6
75°	1.9	1.9	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.7	2.0	1.0	1.0
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)