

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: P519015

Luminaire Tested: **SQ4-WB-025U-075D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519015
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

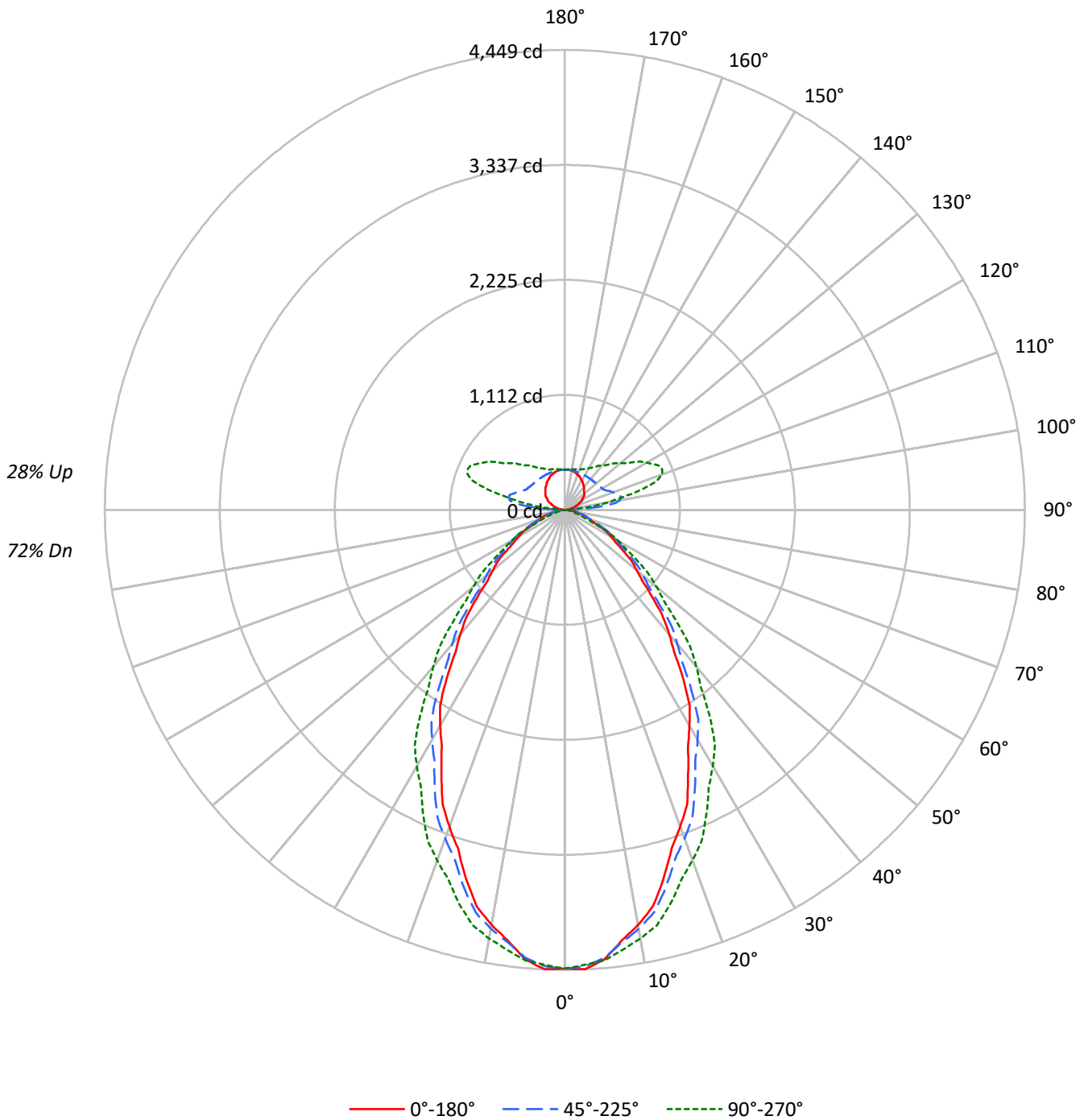
Lumens per Lamp: N/A
Luminaire Lumens: 8998.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	104	100	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	67	65	64	61	60	56
3	89	81	74	69	85	77	71	66	70	65	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	39	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	38	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°	13648	13648	13648
5°	13477	13429	13508
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11809
25°	9574	10096	11002
30°	8560	9121	10165
35°	7486	8027	9175
40°	6301	6801	7943
45°	5200	5649	6631
50°	4341	4733	5525
55°	3686	4062	4562
60°	3150	3521	3641
65°	2508	2962	2352
70°	2224	2311	1436
75°	2059	1874	879
80°	1897	1725	758
85°	1718	1581	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	4.5
10°-20°	1058.7	11.8
20°-30°	1371.4	15.2
30°-40°	1342.9	14.9
40°-50°	1027.9	11.4
50°-60°	685.0	7.6
60°-70°	373.8	4.2
70°-80°	155.7	1.7
80°-90°	46.2	0.5
90°-100°	190.3	2.1
100°-110°	500.2	5.6
110°-120°	518.7	5.8
120°-130°	416.0	4.6
130°-140°	326.4	3.6
140°-150°	250.5	2.8
150°-160°	180.4	2.0
160°-170°	110.4	1.2
170°-180°	37.3	0.4
0°-30°	2837.1	31.5
0°-40°	4180.0	46.5
0°-60°	5892.9	65.5
0°-90°	6468.6	71.9
90°-120°	1209.1	13.4
90°-150°	2202.1	24.5
90°-180°	2530.0	28.1
0°-180°	8998.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4366	4322	4350	4360	4375	406
15°	3692	3679	3778	3880	3947	1031
25°	2822	2829	2975	3105	3242	1298
35°	1994	2004	2138	2282	2444	1240
45°	1196	1218	1299	1397	1525	932
55°	687	716	758	786	851	623
65°	345	373	407	356	323	358
75°	173	173	158	108	74	185
85°	49	49	45	29	18	53
90°	2	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4448.6	4409.0	4419.0	4418.7	4406.5
5°	4365.6	4321.8	4350.1	4360.1	4375.4
7.5°	4203.6	4170.5	4221.9	4260.0	4290.9
10°	4077.4	4048.9	4114.4	4169.9	4209.9
12.5°	3931.0	3907.0	3988.3	4062.7	4114.8
15°	3691.9	3678.6	3777.6	3880.3	3947.0
17.5°	3436.0	3429.6	3543.1	3663.1	3748.4
20°	3261.6	3259.7	3384.2	3509.2	3608.2
22.5°	3085.5	3089.7	3220.7	3350.6	3463.3
25°	2821.5	2829.1	2975.3	3105.0	3242.1
27.5°	2577.3	2580.7	2731.9	2868.8	3015.1
30°	2410.6	2420.2	2568.4	2710.1	2862.4
32.5°	2244.0	2255.0	2400.1	2546.6	2701.9
35°	1993.9	2003.5	2138.0	2281.9	2443.7
37.5°	1736.1	1749.1	1868.5	2004.6	2163.7
40°	1569.4	1588.5	1694.1	1822.2	1978.4
42.5°	1409.0	1432.6	1530.5	1652.1	1793.0
45°	1195.6	1218.4	1298.8	1397.1	1524.7
47.5°	1011.8	1038.0	1099.8	1184.4	1293.3
50°	907.4	932.1	989.2	1051.9	1154.7
52.5°	815.5	840.2	891.0	939.4	1027.0
55°	687.4	715.9	757.5	786.2	850.9
57.5°	582.2	609.6	642.6	655.5	694.8
60°	512.1	542.6	572.5	571.0	592.0
62.5°	448.2	474.1	503.9	483.3	484.5
65°	344.7	373.2	407.0	355.6	323.2
67.5°	278.5	284.5	319.3	248.0	209.5
70°	247.3	247.3	257.0	192.0	159.7
72.5°	217.7	217.7	208.7	156.2	122.3
75°	173.3	173.3	157.7	108.3	74.0
77.5°	133.6	132.1	120.7	80.8	53.7
80°	107.1	107.1	97.4	63.8	42.8
82.5°	83.7	83.7	75.6	49.8	31.9
85°	48.7	48.7	44.8	28.9	17.5
87.5°	17.6	18.6	19.6	11.3	9.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)