

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: P519049

Luminaire Tested: **SQ4-WB-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519049
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-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

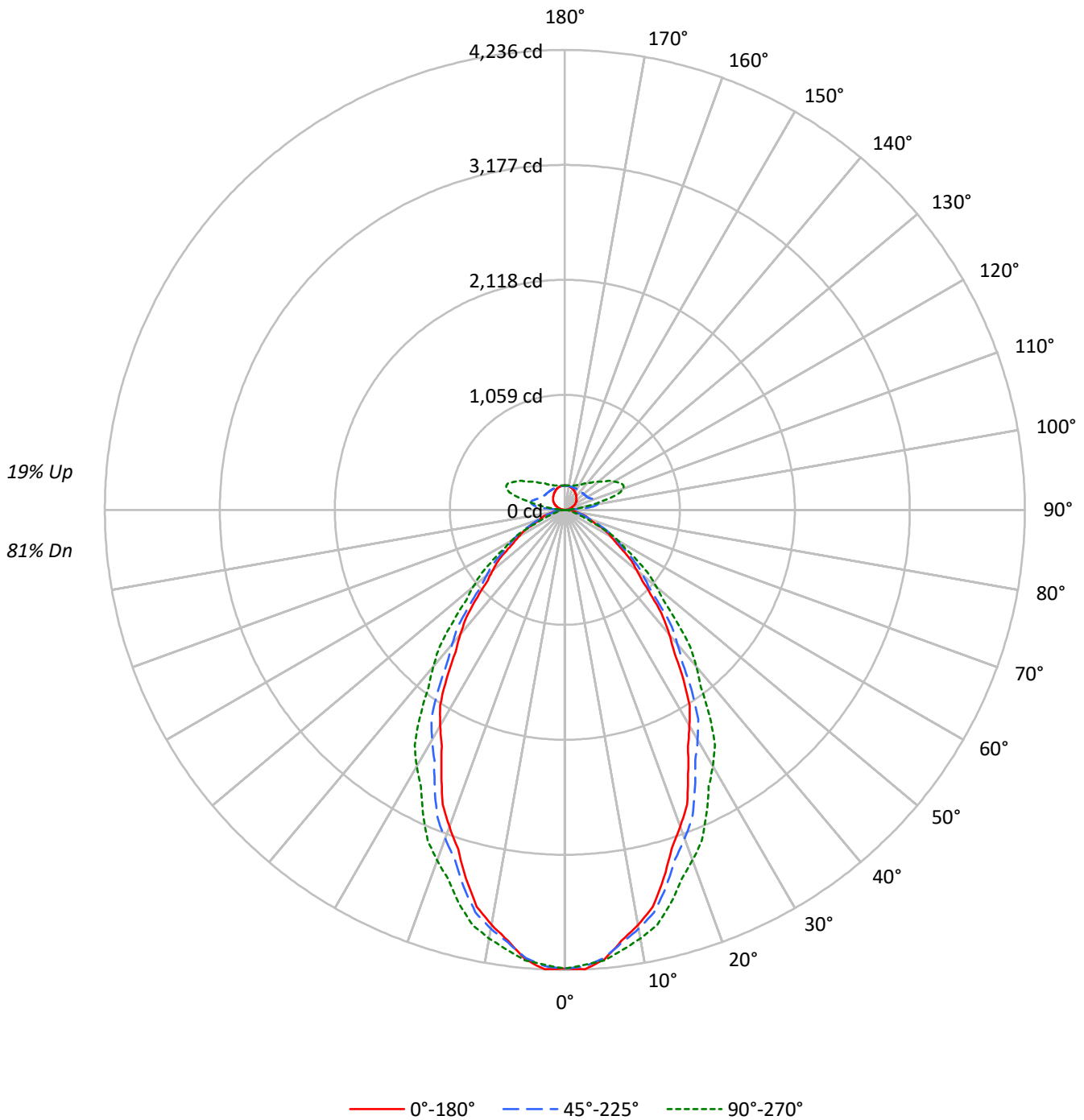
Lumens per Lamp: N/A
Luminaire Lumens: 7607.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25991	25991	25991
5°	25667	25575	25723
10°	24250	24469	25036
15°	22385	22905	23932
20°	20329	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15286	17472
40°	11999	12952	15126
45°	9902	10757	12629
50°	8268	9013	10521
55°	7019	7735	8689
60°	5998	6706	6934
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3569	1675
80°	3613	3284	1445
85°	3275	3006	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	5.1
10°-20°	1008.1	13.3
20°-30°	1305.8	17.2
30°-40°	1278.7	16.8
40°-50°	978.8	12.9
50°-60°	652.2	8.6
60°-70°	355.9	4.7
70°-80°	148.3	1.9
80°-90°	43.2	0.6
90°-100°	108.9	1.4
100°-110°	286.4	3.8
110°-120°	297.0	3.9
120°-130°	238.2	3.1
130°-140°	186.9	2.5
140°-150°	143.5	1.9
150°-160°	103.3	1.4
160°-170°	63.2	0.8
170°-180°	21.4	0.3
0°-30°	2701.5	35.5
0°-40°	3980.2	52.3
0°-60°	5611.2	73.8
0°-90°	6158.6	81.0
90°-120°	692.3	9.1
90°-150°	1261.0	16.6
90°-180°	1449.0	19.0
0°-180°	7607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4157	4115	4142	4152	4166	387
15°	3515	3503	3597	3695	3758	982
25°	2687	2694	2833	2957	3087	1236
35°	1899	1908	2036	2173	2327	1180
45°	1138	1160	1237	1330	1452	888
55°	654	682	721	749	810	593
65°	328	355	388	339	308	341
75°	165	165	150	103	70	176
85°	46	46	43	28	17	50
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4225.6	4225.6	4225.6	4225.6	4225.6
2.5°	4236.0	4198.2	4207.8	4207.5	4195.9
5°	4157.0	4115.3	4142.1	4151.7	4166.2
7.5°	4002.7	3971.2	4020.1	4056.4	4085.8
10°	3882.6	3855.4	3917.8	3970.6	4008.6
12.5°	3743.1	3720.3	3797.6	3868.5	3918.2
15°	3515.4	3502.7	3597.0	3694.9	3758.3
17.5°	3271.8	3265.6	3373.8	3488.0	3569.2
20°	3105.7	3103.9	3222.5	3341.4	3435.7
22.5°	2938.1	2942.0	3066.7	3190.4	3297.8
25°	2686.6	2693.9	2833.1	2956.6	3087.1
27.5°	2454.1	2457.4	2601.3	2731.7	2870.9
30°	2295.4	2304.5	2445.6	2580.5	2725.6
32.5°	2136.7	2147.2	2285.4	2424.9	2572.8
35°	1898.6	1907.7	2035.8	2172.8	2326.9
37.5°	1653.1	1665.5	1779.2	1908.8	2060.3
40°	1494.4	1512.6	1613.1	1735.1	1883.8
42.5°	1341.7	1364.1	1457.3	1573.1	1707.3
45°	1138.4	1160.2	1236.7	1330.3	1451.8
47.5°	963.4	988.4	1047.2	1127.8	1231.5
50°	864.0	887.6	941.9	1001.6	1099.5
52.5°	776.5	800.1	848.5	894.5	977.9
55°	654.5	681.7	721.3	748.6	810.3
57.5°	554.4	580.5	611.9	624.2	661.6
60°	487.6	516.6	545.1	543.7	563.7
62.5°	426.8	451.5	479.8	460.2	461.3
65°	328.2	355.4	387.5	338.6	307.8
67.5°	265.1	270.9	304.1	236.1	199.5
70°	235.5	235.5	244.7	182.9	152.0
72.5°	207.3	207.3	198.8	148.7	116.4
75°	165.0	165.0	150.2	103.1	70.5
77.5°	127.2	125.7	115.0	76.9	51.2
80°	102.0	102.0	92.7	60.7	40.8
82.5°	79.7	79.7	71.9	47.4	30.4
85°	46.4	46.4	42.6	27.6	16.7
87.5°	16.6	17.2	17.1	10.0	8.6
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)