

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: P519056

Luminaire Tested: **SQ4-WB-025U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519056
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

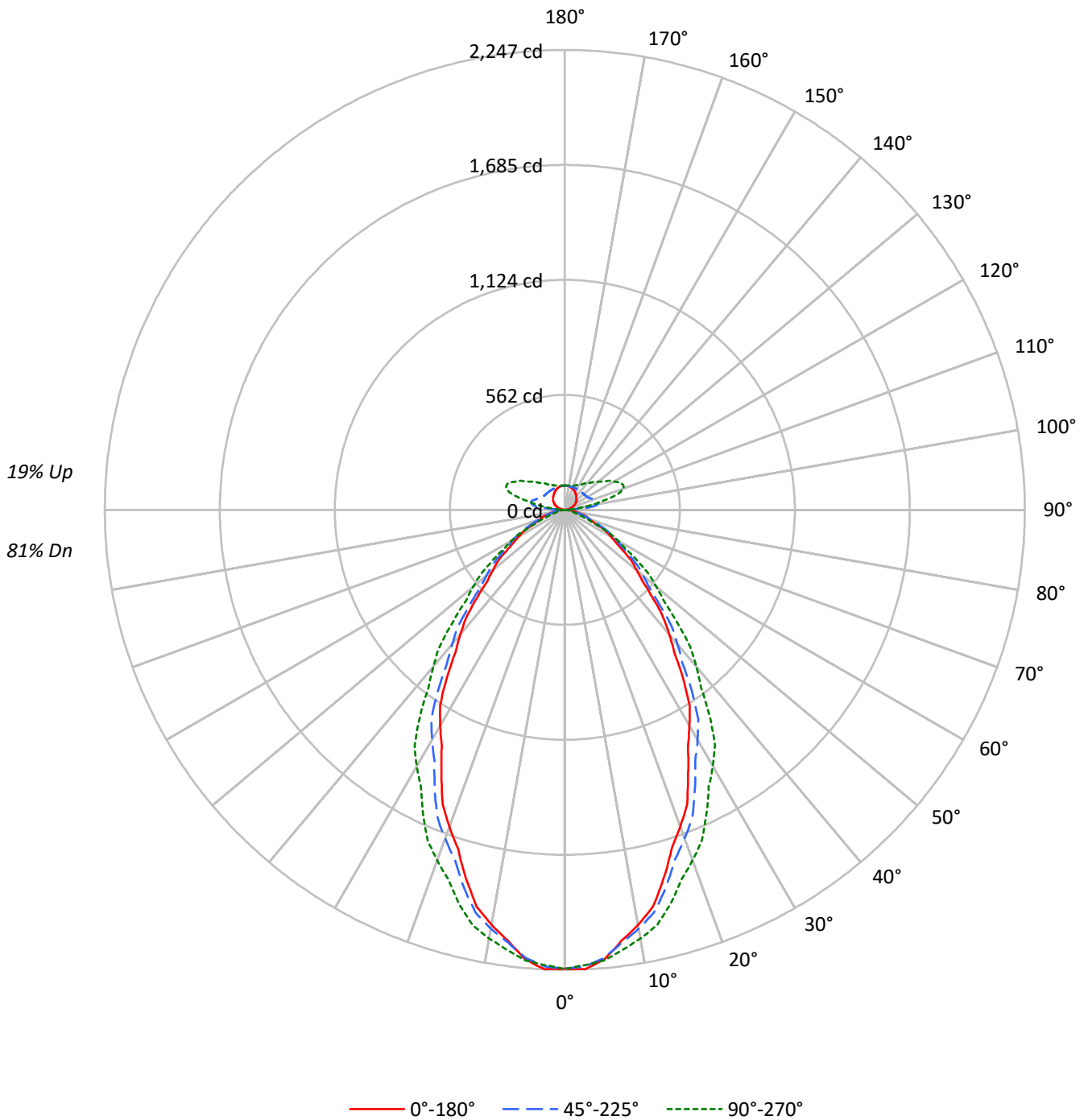
Lumens per Lamp: N/A
Luminaire Lumens: 4035.8 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18226	19044
20°	16177	16784	17896
25°	14510	15301	16672
30°	12973	13822	15404
35°	11344	12164	13903
40°	9548	10307	12037
45°	7880	8561	10049
50°	6580	7172	8372
55°	5585	6154	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3501	2177
75°	3119	2841	1333
80°	2874	2614	1148
85°	2604	2392	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	5.1
10°-20°	534.8	13.3
20°-30°	692.7	17.2
30°-40°	678.4	16.8
40°-50°	519.3	12.9
50°-60°	346.0	8.6
60°-70°	188.8	4.7
70°-80°	78.7	1.9
80°-90°	22.9	0.6
90°-100°	57.8	1.4
100°-110°	151.9	3.8
110°-120°	157.6	3.9
120°-130°	126.4	3.1
130°-140°	99.2	2.5
140°-150°	76.1	1.9
150°-160°	54.8	1.4
160°-170°	33.5	0.8
170°-180°	11.3	0.3
0°-30°	1433.2	35.5
0°-40°	2111.5	52.3
0°-60°	2976.8	73.8
0°-90°	3267.2	81.0
90°-120°	367.3	9.1
90°-150°	669.0	16.6
90°-180°	769.0	19.1
0°-180°	4035.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2205	2183	2197	2202	2210	205
15°	1865	1858	1908	1960	1994	521
25°	1425	1429	1503	1568	1638	655
35°	1007	1012	1080	1153	1234	626
45°	604	616	656	706	770	471
55°	347	362	383	397	430	315
65°	174	188	206	180	163	181
75°	88	88	80	55	37	93
85°	25	25	23	15	9	27
90°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2247.2	2227.2	2232.2	2232.1	2225.9
5°	2205.3	2183.2	2197.4	2202.5	2210.2
7.5°	2123.4	2106.7	2132.7	2151.9	2167.5
10°	2059.7	2045.3	2078.4	2106.4	2126.6
12.5°	1985.7	1973.6	2014.7	2052.2	2078.6
15°	1865.0	1858.2	1908.2	1960.1	1993.8
17.5°	1735.7	1732.4	1789.8	1850.4	1893.5
20°	1647.6	1646.6	1709.5	1772.6	1822.7
22.5°	1558.7	1560.8	1626.9	1692.5	1749.5
25°	1425.3	1429.1	1503.0	1568.5	1637.7
27.5°	1301.9	1303.7	1380.0	1449.2	1523.0
30°	1217.7	1222.5	1297.4	1369.0	1445.9
32.5°	1133.5	1139.1	1212.4	1286.4	1364.9
35°	1007.2	1012.0	1080.0	1152.7	1234.4
37.5°	877.0	883.5	943.9	1012.6	1093.0
40°	792.8	802.4	855.8	920.5	999.4
42.5°	711.8	723.7	773.1	834.6	905.7
45°	603.9	615.5	656.1	705.7	770.2
47.5°	511.1	524.4	555.6	598.3	653.3
50°	458.4	470.9	499.7	531.4	583.3
52.5°	411.9	424.4	450.1	474.5	518.8
55°	347.2	361.6	382.6	397.1	429.8
57.5°	294.1	308.0	324.6	331.1	351.0
60°	258.7	274.1	289.2	288.4	299.0
62.5°	226.4	239.5	254.6	244.1	244.7
65°	174.1	188.5	205.6	179.6	163.3
67.5°	140.7	143.7	161.3	125.3	105.8
70°	124.9	124.9	129.8	97.0	80.7
72.5°	110.0	110.0	105.4	78.9	61.8
75°	87.5	87.5	79.7	54.7	37.4
77.5°	67.5	66.7	61.0	40.8	27.1
80°	54.1	54.1	49.2	32.2	21.6
82.5°	42.3	42.3	38.2	25.2	16.1
85°	24.6	24.6	22.6	14.6	8.9
87.5°	8.8	9.1	9.1	5.3	4.5
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)