

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: P519184

Luminaire Tested: **SQ4-WB-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519184
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

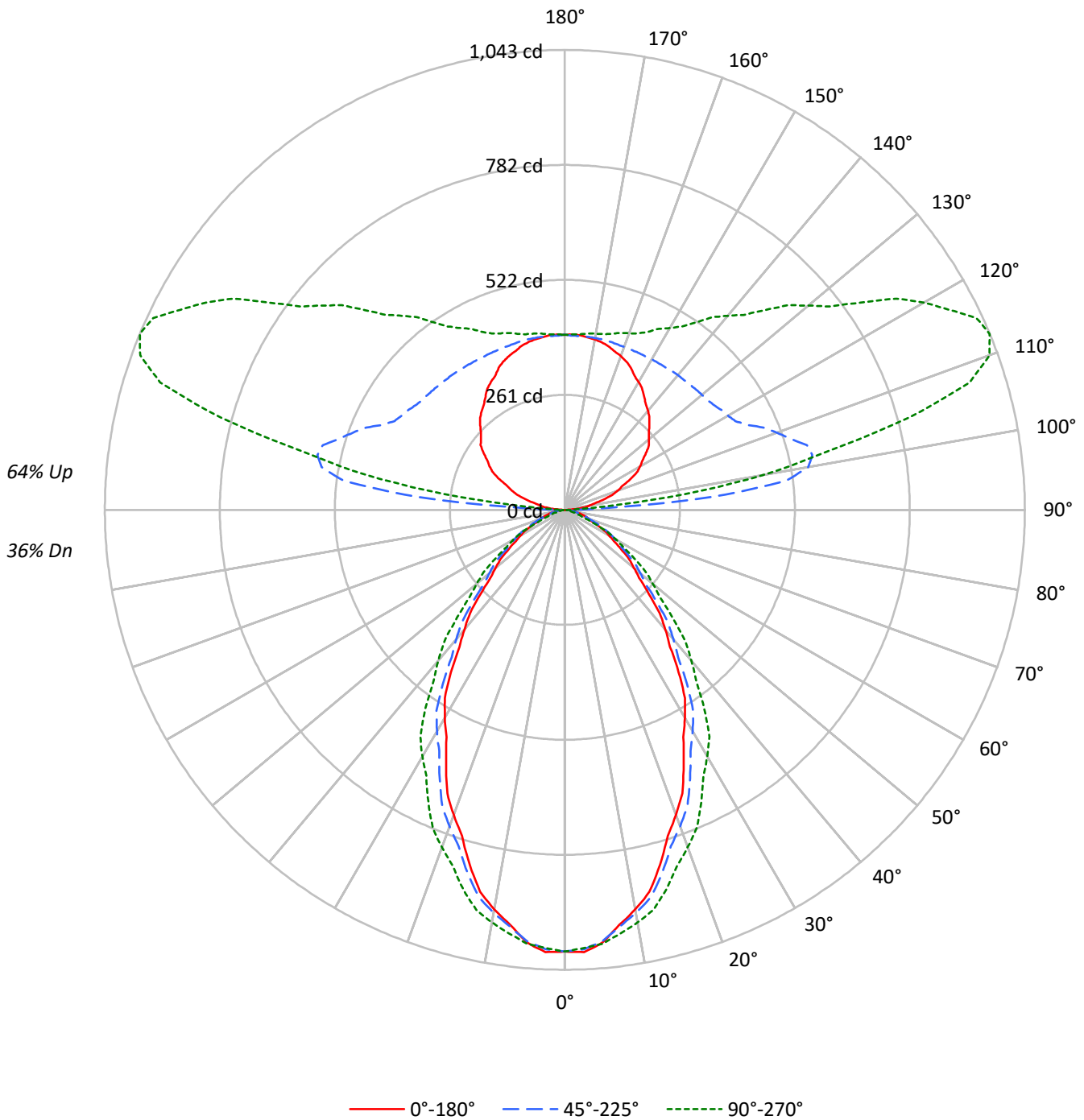
Lumens per Lamp: N/A
Luminaire Lumens: 4048.5 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9241	9241	9241
5°	9125	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7227	7499	7996
25°	6483	6836	7449
30°	5797	6176	6882
35°	5068	5436	6213
40°	4266	4606	5378
45°	3520	3824	4490
50°	2940	3205	3741
55°	2495	2751	3090
60°	2133	2384	2465
65°	1698	2006	1594
70°	1505	1565	971
75°	1394	1269	595
80°	1286	1169	515
85°	1164	1069	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	2.3
10°-20°	239.0	5.9
20°-30°	309.5	7.6
30°-40°	303.1	7.5
40°-50°	232.0	5.7
50°-60°	154.6	3.8
60°-70°	84.4	2.1
70°-80°	35.1	0.9
80°-90°	11.0	0.3
90°-100°	187.4	4.6
100°-110°	515.5	12.7
110°-120°	532.1	13.1
120°-130°	426.3	10.5
130°-140°	334.8	8.3
140°-150°	256.6	6.3
150°-160°	184.5	4.6
160°-170°	112.8	2.8
170°-180°	38.0	0.9
0°-30°	640.3	15.8
0°-40°	943.4	23.3
0°-60°	1330.0	32.9
0°-90°	1460.5	36.1
90°-120°	1235.0	30.5
90°-150°	2252.7	55.6
90°-180°	2588.0	63.9
0°-180°	4048.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	985	975	982	984	988	92
15°	833	830	853	876	891	233
25°	637	638	672	701	732	293
35°	450	452	483	515	552	280
45°	270	275	293	315	344	210
55°	155	162	171	177	192	141
65°	78	84	92	80	73	81
75°	39	39	36	24	17	42
85°	11	11	10	6	4	12
90°	1	3	6	8	8	2
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	1004.1	995.1	997.4	997.3	994.6
5°	985.3	975.4	981.8	984.1	987.5
7.5°	948.8	941.3	952.9	961.5	968.5
10°	920.3	913.8	928.6	941.1	950.2
12.5°	887.2	881.8	900.2	917.0	928.7
15°	833.3	830.3	852.6	875.8	890.8
17.5°	775.5	774.1	799.7	826.8	846.0
20°	736.1	735.7	763.8	792.0	814.4
22.5°	696.4	697.4	726.9	756.2	781.7
25°	636.8	638.5	671.5	700.8	731.7
27.5°	581.7	582.5	616.6	647.5	680.5
30°	544.1	546.2	579.7	611.7	646.0
32.5°	506.5	509.0	541.7	574.8	609.8
35°	450.0	452.2	482.6	515.0	551.6
37.5°	391.8	394.8	421.7	452.4	488.4
40°	354.2	358.5	382.4	411.3	446.5
42.5°	318.0	323.3	345.4	372.9	404.7
45°	269.8	275.0	293.1	315.3	344.1
47.5°	228.4	234.3	248.2	267.3	291.9
50°	204.8	210.4	223.3	237.4	260.6
52.5°	184.1	189.6	201.1	212.0	231.8
55°	155.1	161.6	171.0	177.4	192.1
57.5°	131.4	137.6	145.0	148.0	156.8
60°	115.6	122.5	129.2	128.9	133.6
62.5°	101.2	107.0	113.7	109.1	109.3
65°	77.8	84.2	91.9	80.3	73.0
67.5°	62.8	64.2	72.1	56.0	47.3
70°	55.8	55.8	58.0	43.3	36.0
72.5°	49.1	49.1	47.1	35.2	27.6
75°	39.1	39.1	35.6	24.4	16.7
77.5°	30.1	29.8	27.2	18.2	12.1
80°	24.2	24.2	22.0	14.4	9.7
82.5°	18.9	18.9	17.1	11.2	7.2
85°	11.0	11.0	10.1	6.5	4.0
87.5°	4.0	4.5	4.7	3.6	3.3
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)