

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: P519449

Luminaire Tested: **SQ4-WB-100U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519449
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

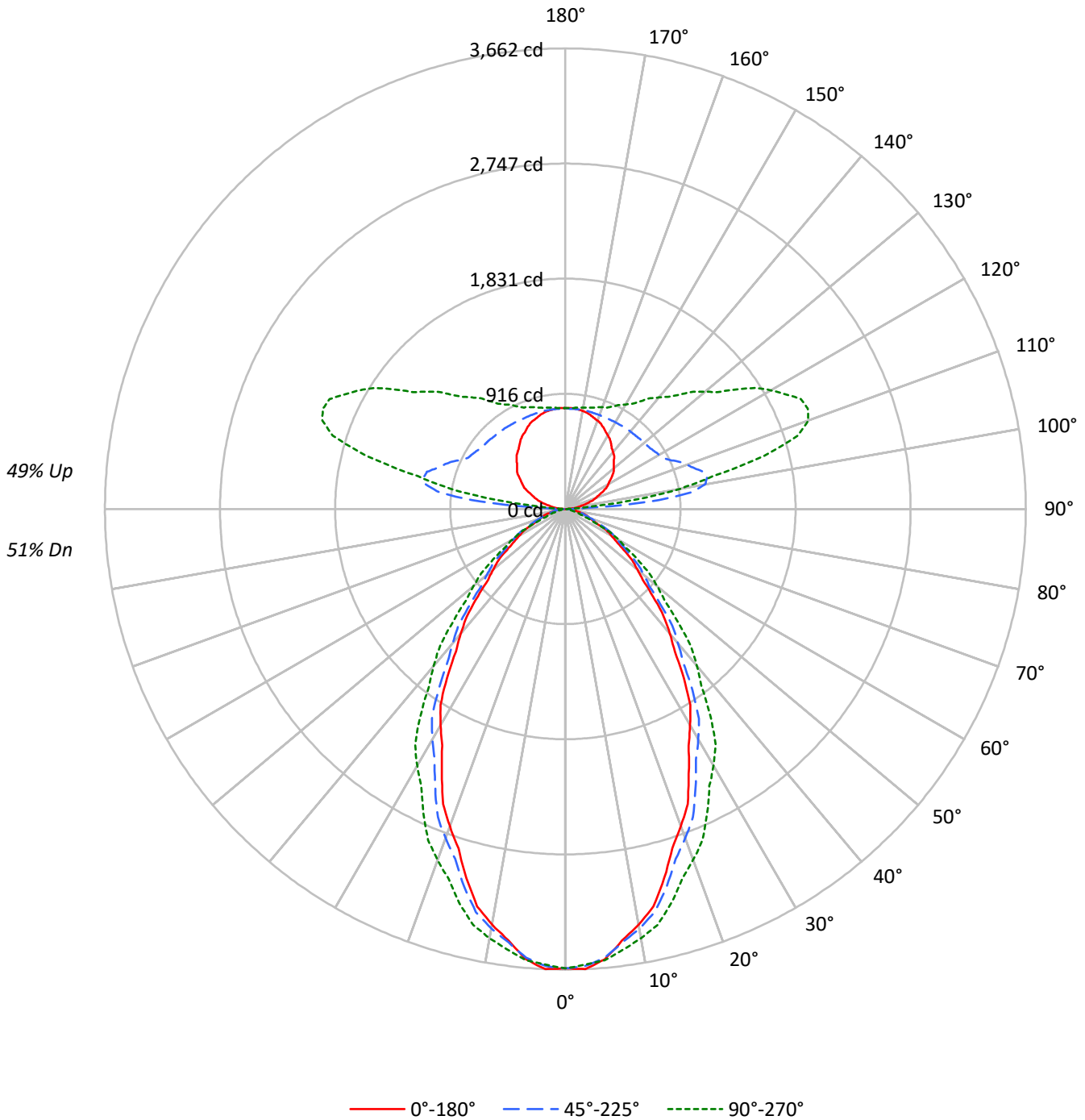
Lumens per Lamp: N/A
Luminaire Lumens: 10532.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45
2	91	84	79	74	84	78	74	70	67	64	61	57	54	52	47	45	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	77	68	60	55	72	63	57	52	54	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	40	42	39	36	36	33	31	28
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21
9	54	42	35	30	50	40	33	29	35	30	27	31	27	24	27	24	21	19
10	50	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22237
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14093	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6686	7512
60°	5186	5797	5995
65°	4129	4876	3873
70°	3661	3805	2363
75°	3391	3085	1447
80°	3124	2837	1250
85°	2830	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	3.2
10°-20°	871.5	8.3
20°-30°	1128.8	10.7
30°-40°	1105.4	10.5
40°-50°	846.1	8.0
50°-60°	563.8	5.4
60°-70°	307.7	2.9
70°-80°	128.2	1.2
80°-90°	38.0	0.4
90°-100°	375.4	3.6
100°-110°	1036.3	9.8
110°-120°	1068.7	10.1
120°-130°	858.8	8.2
130°-140°	674.9	6.4
140°-150°	517.7	4.9
150°-160°	372.0	3.5
160°-170°	227.5	2.2
170°-180°	76.7	0.7
0°-30°	2335.4	22.2
0°-40°	3440.8	32.7
0°-60°	4850.8	46.1
0°-90°	5324.7	50.6
90°-120°	2480.4	23.5
90°-150°	4531.8	43.0
90°-180°	5208.0	49.4
0°-180°	10532.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3653	3653	3653	3653	3653	
5°	3594	3558	3581	3589	3602	334
15°	3039	3028	3110	3194	3249	849
25°	2322	2329	2449	2556	2669	1068
35°	1641	1649	1760	1878	2012	1020
45°	984	1003	1069	1150	1255	767
55°	566	589	624	647	700	513
65°	284	307	335	293	266	295
75°	143	143	130	89	61	152
85°	40	40	37	24	14	44
90°	3	5	10	12	13	6
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3652.9	3652.9	3652.9	3652.9	3652.9
2.5°	3661.9	3629.3	3637.5	3637.3	3627.3
5°	3593.6	3557.6	3580.8	3589.1	3601.6
7.5°	3460.3	3433.0	3475.3	3506.7	3532.1
10°	3356.4	3332.9	3386.8	3432.5	3465.4
12.5°	3235.9	3216.1	3283.0	3344.2	3387.2
15°	3039.0	3028.1	3109.6	3194.1	3249.0
17.5°	2828.4	2823.1	2916.6	3015.3	3085.5
20°	2684.8	2683.2	2785.8	2888.6	2970.1
22.5°	2539.9	2543.3	2651.1	2758.1	2850.9
25°	2322.5	2328.8	2449.2	2555.9	2668.8
27.5°	2121.5	2124.4	2248.8	2361.5	2481.9
30°	1984.3	1992.2	2114.2	2230.8	2356.2
32.5°	1847.1	1856.2	1975.7	2096.2	2224.1
35°	1641.3	1649.2	1759.9	1878.4	2011.6
37.5°	1429.1	1439.8	1538.1	1650.1	1781.1
40°	1291.9	1307.6	1394.5	1500.0	1628.5
42.5°	1159.8	1179.3	1259.8	1359.9	1475.9
45°	984.2	1003.0	1069.1	1150.0	1255.0
47.5°	832.8	854.5	905.3	975.0	1064.6
50°	746.9	767.3	814.3	865.9	950.5
52.5°	671.3	691.7	733.5	773.3	845.3
55°	565.8	589.3	623.5	647.2	700.5
57.5°	479.3	501.8	528.9	539.6	571.9
60°	421.6	446.6	471.2	470.0	487.3
62.5°	369.0	390.3	414.8	397.9	398.8
65°	283.7	307.2	335.0	292.7	266.1
67.5°	229.2	234.2	262.9	204.1	172.5
70°	203.6	203.6	211.6	158.1	131.4
72.5°	179.2	179.2	171.8	128.6	100.7
75°	142.7	142.7	129.8	89.1	60.9
77.5°	110.0	108.7	99.4	66.5	44.2
80°	88.2	88.2	80.1	52.5	35.3
82.5°	68.9	68.9	62.2	41.0	26.3
85°	40.1	40.1	36.9	23.8	14.4
87.5°	14.6	15.1	14.9	10.0	9.0
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)