

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: P519210

Luminaire Tested: **SQ4-WB-075U-075D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519210  
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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

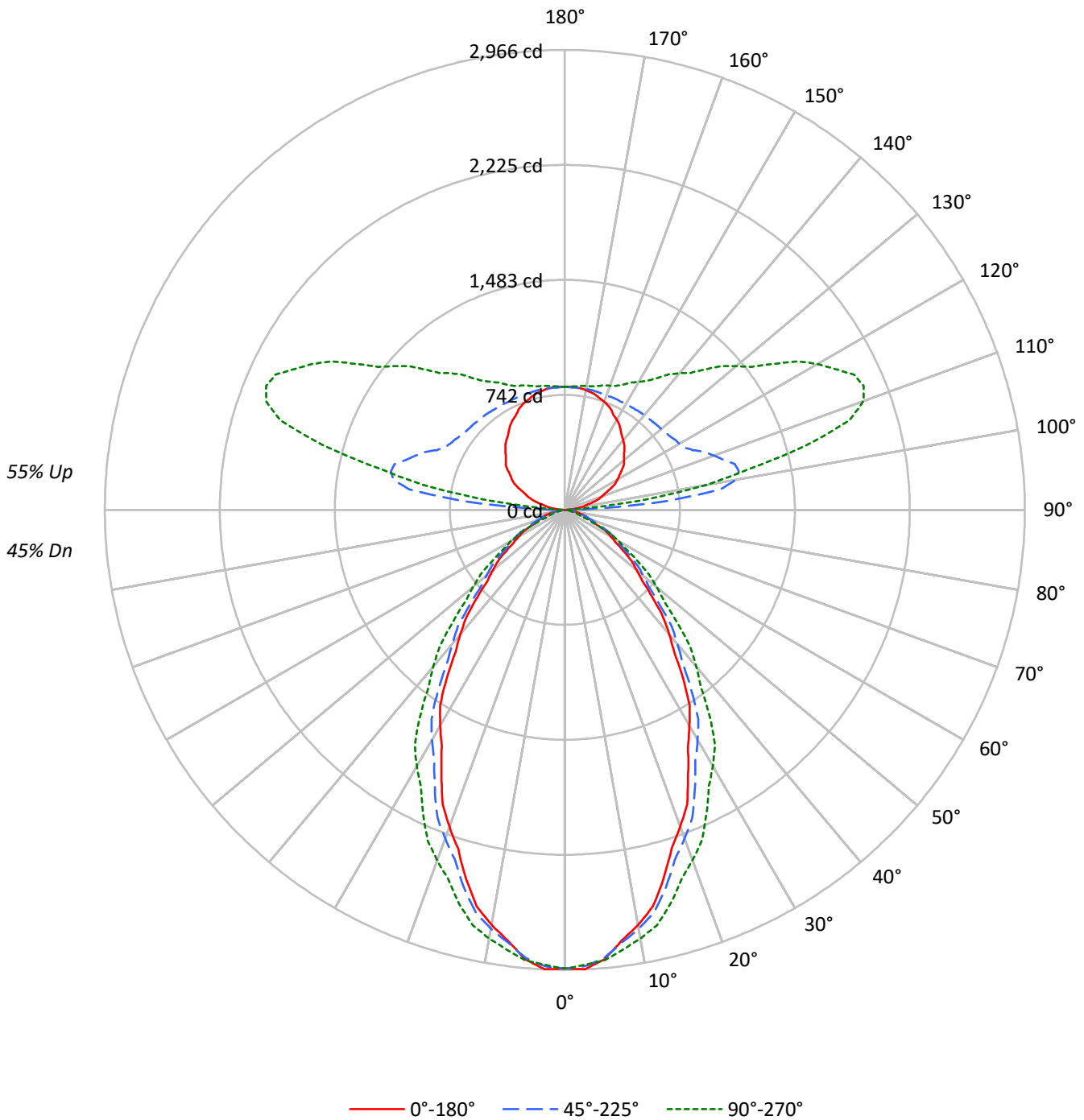
Lumens per Lamp: N/A  
Luminaire Lumens: 9489.2 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13648	13648	13648
5°	13477	13429	13507
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11808
25°	9574	10097	11002
30°	8561	9120	10165
35°	7486	8027	9175
40°	6301	6801	7942
45°	5200	5649	6631
50°	4341	4733	5525
55°	3685	4062	4563
60°	3150	3522	3641
65°	2508	2961	2352
70°	2224	2312	1435
75°	2059	1873	879
80°	1897	1724	760
85°	1720	1583	619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	2.9
10°-20°	705.8	7.4
20°-30°	914.2	9.6
30°-40°	895.3	9.4
40°-50°	685.3	7.2
50°-60°	456.6	4.8
60°-70°	249.2	2.6
70°-80°	103.8	1.1
80°-90°	31.4	0.3
90°-100°	374.7	3.9
100°-110°	1031.0	10.9
110°-120°	1064.2	11.2
120°-130°	852.6	9.0
130°-140°	669.7	7.1
140°-150°	513.2	5.4
150°-160°	369.0	3.9
160°-170°	225.6	2.4
170°-180°	76.1	0.8
0°-30°	1891.4	19.9
0°-40°	2786.7	29.4
0°-60°	3928.6	41.4
0°-90°	4313.0	45.5
90°-120°	2470.0	26.0
90°-150°	4505.5	47.5
90°-180°	5176.0	54.5
0°-180°	9489.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2910	2881	2900	2907	2917	271
15°	2461	2452	2518	2587	2631	687
25°	1881	1886	1984	2070	2161	865
35°	1329	1336	1425	1521	1629	826
45°	797	812	866	931	1016	622
55°	458	477	505	524	567	415
65°	230	249	271	237	216	239
75°	116	116	105	72	49	123
85°	32	32	30	19	12	35
90°	2	7	12	15	15	5
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

TEST NUMBER: P519210

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2965.7	2939.3	2946.0	2945.8	2937.7
5°	2910.4	2881.2	2900.0	2906.8	2916.9
7.5°	2802.4	2780.3	2814.6	2840.0	2860.6
10°	2718.3	2699.3	2743.0	2779.9	2806.6
12.5°	2620.7	2604.7	2658.8	2708.4	2743.2
15°	2461.3	2452.4	2518.4	2586.9	2631.3
17.5°	2290.7	2286.4	2362.1	2442.0	2498.9
20°	2174.4	2173.1	2256.2	2339.4	2405.4
22.5°	2057.0	2059.8	2147.1	2233.7	2308.9
25°	1881.0	1886.1	1983.6	2070.0	2161.4
27.5°	1718.2	1720.5	1821.3	1912.6	2010.0
30°	1607.1	1613.4	1712.2	1806.7	1908.3
32.5°	1496.0	1503.3	1600.1	1697.7	1801.3
35°	1329.3	1335.6	1425.4	1521.3	1629.2
37.5°	1157.4	1166.0	1245.7	1336.4	1442.5
40°	1046.3	1059.0	1129.4	1214.8	1318.9
42.5°	939.3	955.1	1020.3	1101.4	1195.3
45°	797.1	812.3	865.9	931.4	1016.4
47.5°	674.5	692.0	733.2	789.6	862.2
50°	604.9	621.4	659.5	701.3	769.8
52.5°	543.7	560.2	594.0	626.2	684.6
55°	458.2	477.3	505.0	524.1	567.3
57.5°	388.1	406.4	428.4	437.0	463.2
60°	341.4	361.7	381.7	380.7	394.6
62.5°	298.8	316.1	336.0	322.2	323.0
65°	229.8	248.8	271.3	237.1	215.5
67.5°	185.6	189.7	212.9	165.3	139.7
70°	164.9	164.9	171.4	128.0	106.4
72.5°	145.1	145.1	139.2	104.1	81.5
75°	115.5	115.5	105.1	72.2	49.3
77.5°	89.1	88.0	80.5	53.9	35.8
80°	71.4	71.4	64.9	42.5	28.6
82.5°	55.8	55.8	50.4	33.2	21.3
85°	32.5	32.5	29.9	19.3	11.7
87.5°	11.8	12.8	12.8	9.3	8.2
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)