

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: P519772

Luminaire Tested: **SQ4-150U-0D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519772
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-150U-0D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

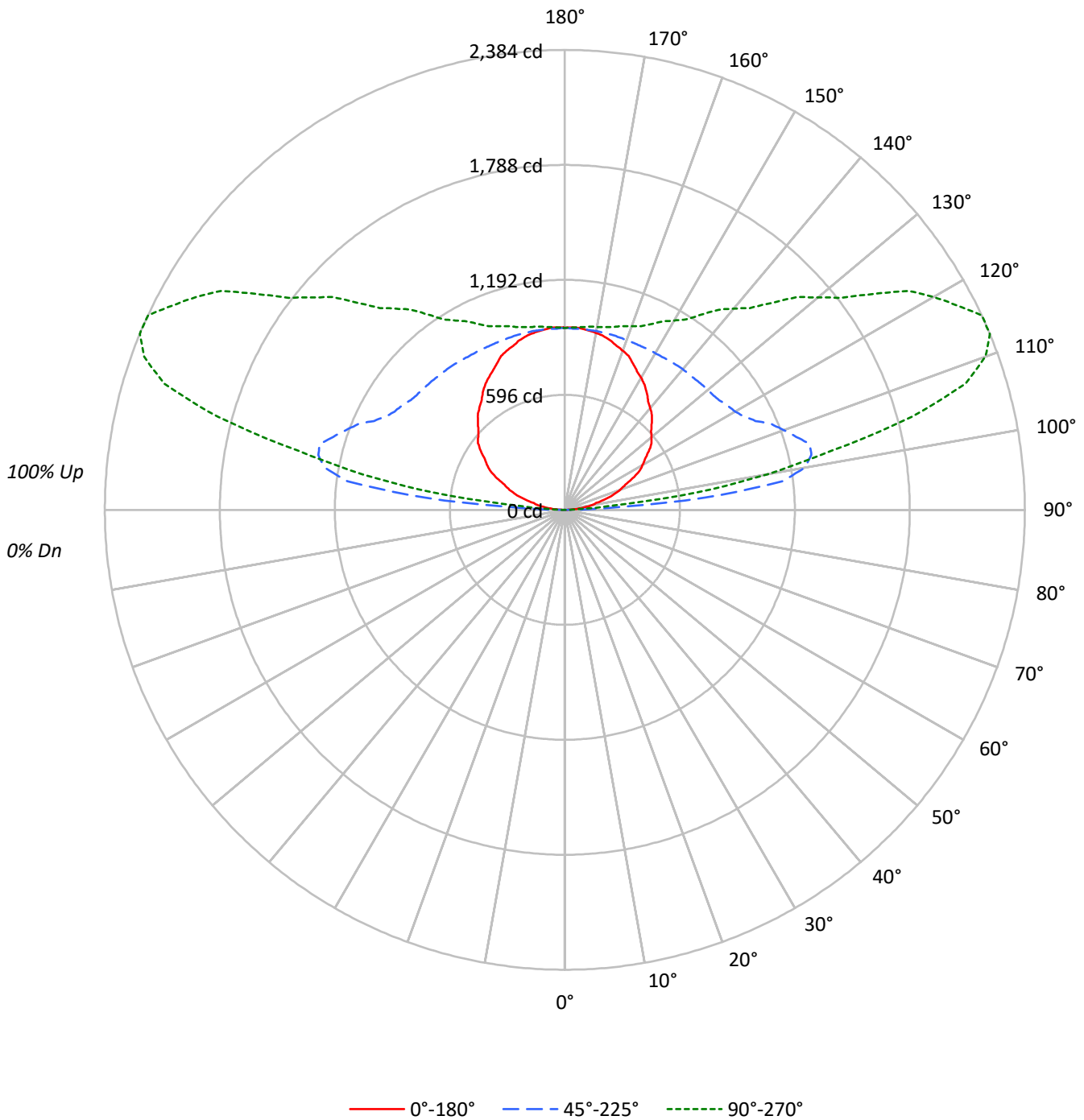
Lumens per Lamp: N/A
Luminaire Lumens: 6084.6 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 39.5
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10				
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8				
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7				
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6				
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5				
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4				
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4				
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3				
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3				
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3				
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	7209	77213	23765
100°	7449	67142	56617
105°	7857	46894	66340
110°	8249	32554	62562
115°	8473	23818	52050
120°	8586	18801	40734
125°	8546	15817	31357
130°	8413	13881	24569
135°	8310	12485	19790
140°	8295	11451	16394
145°	8341	10629	13902
150°	8419	9989	12067
155°	8510	9524	10817
160°	8627	9196	9944
165°	8694	8976	9373
170°	8727	8813	9022
175°	8749	8712	8806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	438.6	7.2
100°-110°	1185.8	19.5
110°-120°	1246.8	20.5
120°-130°	1012.7	16.6
130°-140°	794.4	13.1
140°-150°	609.7	10.0
150°-160°	438.5	7.2
160°-170°	267.9	4.4
170°-180°	90.3	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	2871.2	47.2
90°-150°	5287.9	86.9
90°-180°	6085.0	100.0
0°-180°	6084.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	6	13	14	13	
95°	68	239	729	378	224	75
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)