

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: P519702

Luminaire Tested: **SQ4-075U-0D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519702
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-075U-0D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6047.8 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

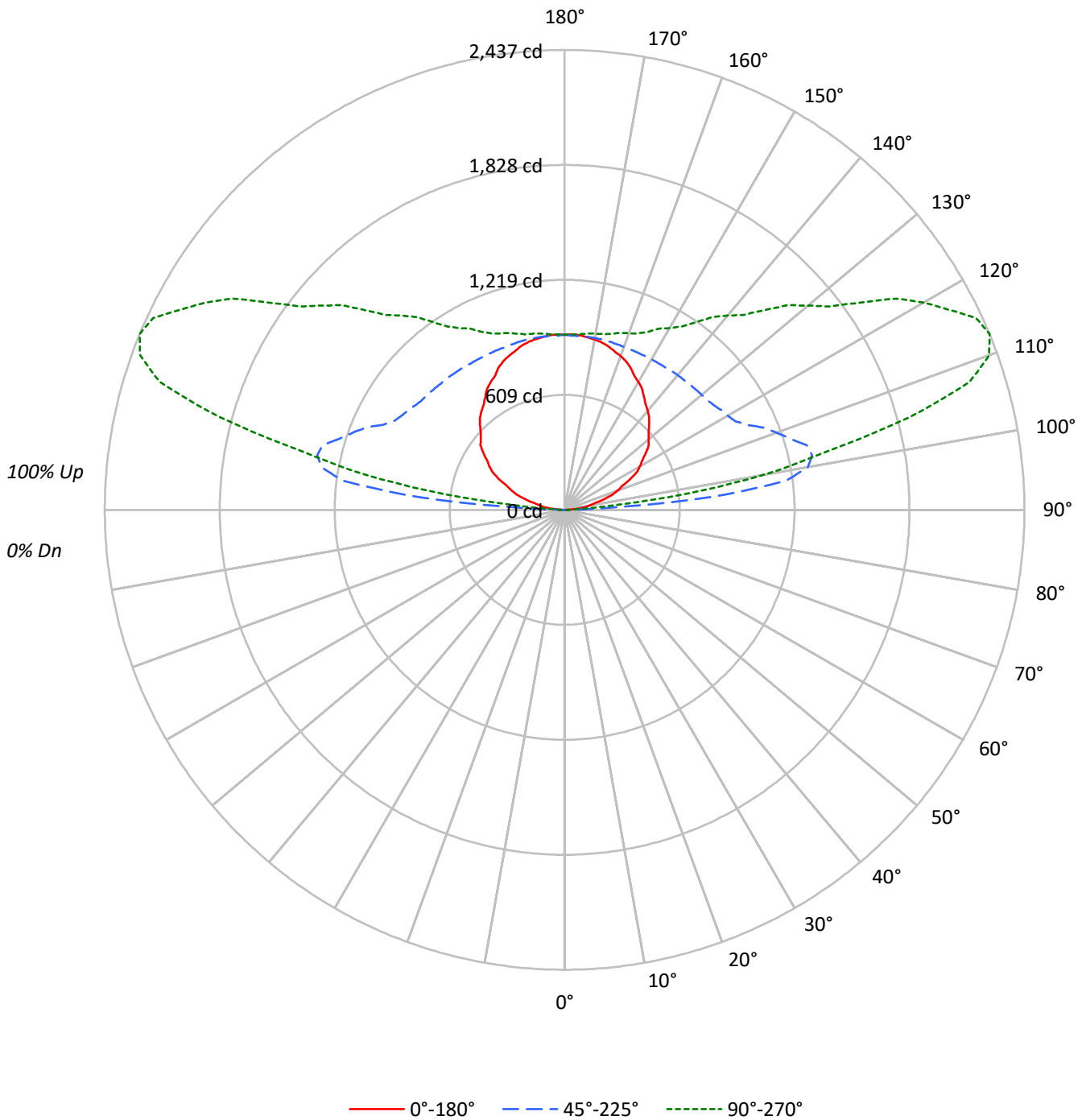
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	3451	40983	11184
100°	3621	34791	28651
105°	3837	23657	33621
110°	4023	16118	32290
115°	4161	11621	26261
120°	4246	9203	20264
125°	4226	7768	15394
130°	4168	6804	12078
135°	4136	6121	9755
140°	4127	5614	8088
145°	4127	5206	6830
150°	4167	4903	5923
155°	4223	4675	5298
160°	4257	4509	4887
165°	4282	4405	4613
170°	4293	4330	4441
175°	4299	4281	4326



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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°	437.9	7.2
100°-110°	1204.6	19.9
110°-120°	1243.4	20.6
120°-130°	996.2	16.5
130°-140°	782.5	12.9
140°-150°	599.6	9.9
150°-160°	431.1	7.1
160°-170°	263.6	4.4
170°-180°	88.9	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°	2885.9	47.7
90°-150°	5264.2	87.0
90°-180°	6048.0	100.0
0°-180°	6047.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	8	14	18	18	
95°	65	239	774	331	211	73
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)