

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: P564430

Luminaire Tested: **SQ4-PR1-150U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564430
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

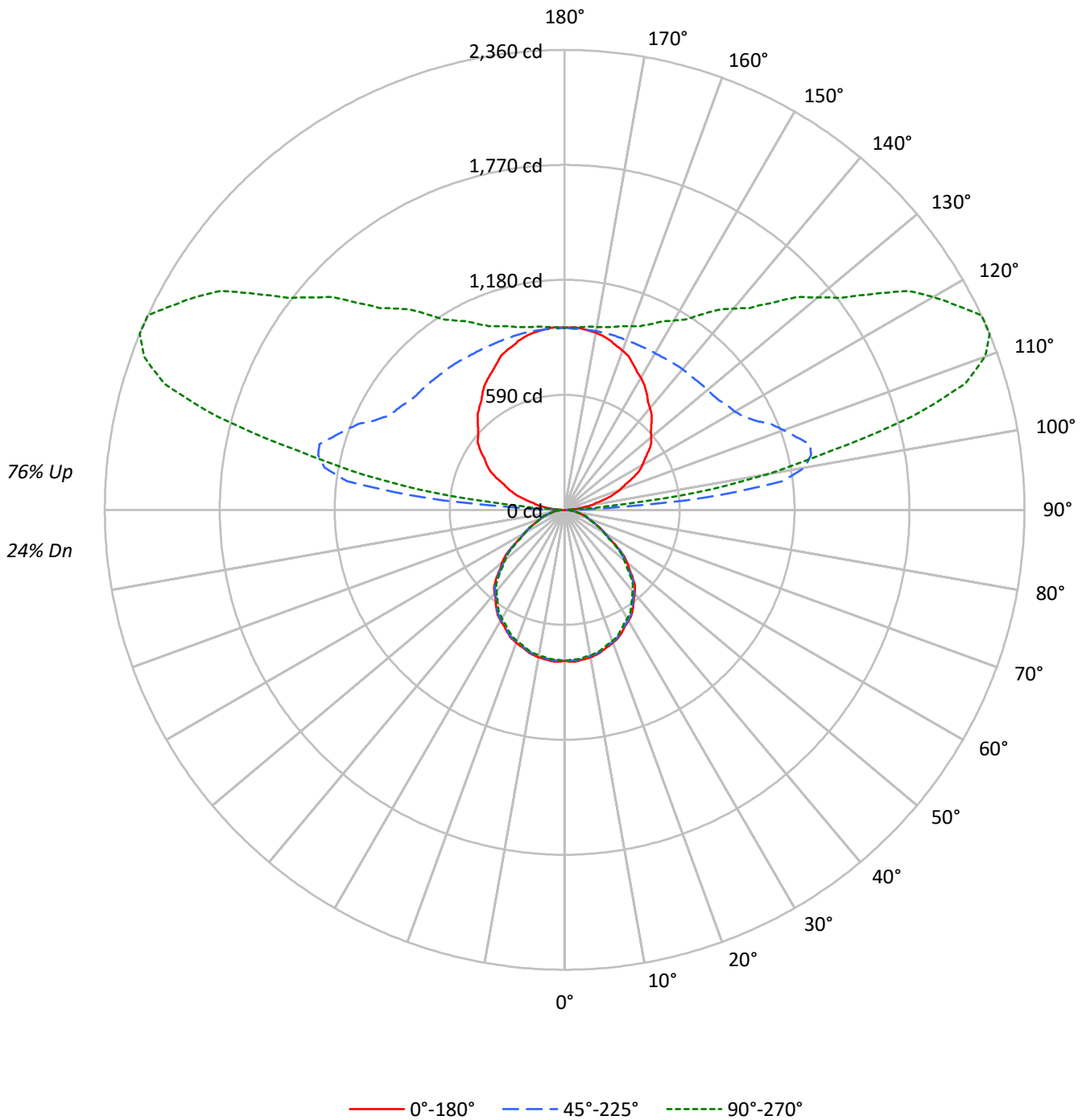
Lumens per Lamp: N/A
Luminaire Lumens: 7963.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7217	7161	7123
10°	7193	7144	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7075	7028	6947
30°	6999	6949	6850
35°	6895	6836	6738
40°	6739	6666	6546
45°	6464	6350	6220
50°	5980	5836	5721
55°	5220	5101	4995
60°	4399	4362	4275
65°	3805	3818	3790
70°	3493	3512	3512
75°	3354	3354	3379
80°	3156	3193	3156
85°	2541	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	0.9
10°-20°	209.7	2.6
20°-30°	316.3	4.0
30°-40°	376.9	4.7
40°-50°	371.6	4.7
50°-60°	284.0	3.6
60°-70°	175.8	2.2
70°-80°	99.8	1.3
80°-90°	32.3	0.4
90°-100°	434.2	5.5
100°-110°	1174.0	14.7
110°-120°	1234.3	15.5
120°-130°	1002.6	12.6
130°-140°	786.5	9.9
140°-150°	603.6	7.6
150°-160°	434.1	5.5
160°-170°	265.2	3.3
170°-180°	89.4	1.1
0°-30°	599.4	7.5
0°-40°	976.3	12.3
0°-60°	1631.9	20.5
0°-90°	1939.8	24.4
90°-120°	2842.6	35.7
90°-150°	5235.3	65.7
90°-180°	6024.0	75.6
0°-180°	7963.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	779	771	773	770	769	74
15°	750	742	745	742	741	212
25°	695	687	690	683	682	320
35°	612	605	607	599	598	382
45°	495	489	487	478	477	380
55°	324	319	317	312	310	291
65°	174	173	175	174	174	177
75°	94	94	94	95	95	99
85°	24	25	27	27	27	28
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.2	775.2	775.2	775.2	775.2
2.5°	780.0	773.2	775.2	773.5	769.8
5°	779.2	770.7	773.2	770.5	769.1
7.5°	773.2	764.8	767.3	764.6	763.8
10°	767.8	760.0	762.5	759.8	758.5
12.5°	761.9	753.6	756.6	753.4	752.1
15°	749.8	742.0	745.1	742.4	741.1
17.5°	736.4	728.1	731.2	728.1	726.4
20°	725.8	717.9	721.1	716.4	715.7
22.5°	714.0	706.2	709.3	703.0	702.9
25°	695.0	686.6	690.4	683.0	682.4
27.5°	672.5	664.6	667.8	660.3	659.5
30°	657.0	649.1	652.3	644.3	643.0
32.5°	639.4	632.0	634.7	626.7	625.9
35°	612.2	605.1	606.9	598.9	598.2
37.5°	581.4	574.9	575.9	567.1	566.4
40°	559.5	553.0	553.5	544.1	543.5
42.5°	535.5	528.9	528.4	519.0	518.4
45°	495.4	488.9	486.7	478.0	476.7
47.5°	449.7	443.2	439.2	432.1	431.2
50°	416.6	410.1	406.6	400.6	398.6
52.5°	380.8	374.3	371.4	365.8	363.9
55°	324.5	319.3	317.1	311.8	310.5
57.5°	270.9	267.4	266.8	261.6	261.1
60°	238.4	236.4	236.4	231.7	231.7
62.5°	210.6	209.1	210.2	207.1	206.6
65°	174.3	173.0	174.9	173.6	173.6
67.5°	145.6	145.6	146.8	146.2	146.2
70°	129.5	129.5	130.2	130.2	130.2
72.5°	115.1	114.6	116.3	116.3	115.8
75°	94.1	94.1	94.1	94.8	94.8
77.5°	73.3	73.4	74.0	73.8	73.3
80°	59.4	60.1	60.1	59.4	59.4
82.5°	45.5	46.2	46.2	46.1	45.5
85°	24.0	25.3	26.7	26.7	26.7
87.5°	7.3	10.2	13.3	13.5	12.8
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)