

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: P564454

Luminaire Tested: **SQ4-PR1-150U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564454
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-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

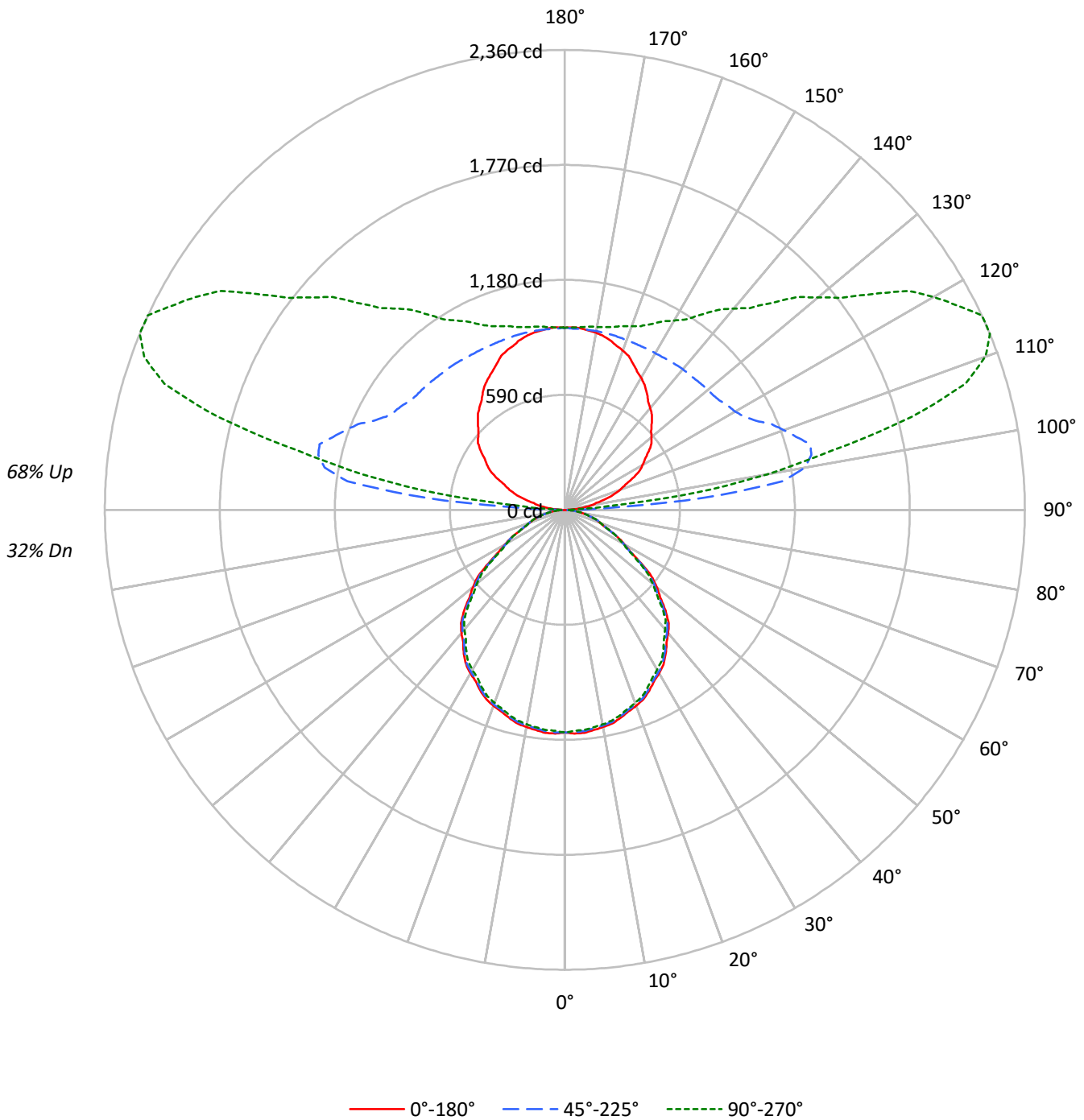
Lumens per Lamp: N/A
Luminaire Lumens: 8882.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10553	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10503	10435	10357
25°	10428	10358	10238
30°	10316	10242	10095
35°	10164	10075	9931
40°	9931	9825	9647
45°	9528	9361	9167
50°	8814	8602	8433
55°	7694	7518	7361
60°	6482	6429	6301
65°	5606	5628	5587
70°	5150	5177	5177
75°	4948	4948	4980
80°	4654	4707	4654
85°	3747	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.2
10°-20°	309.1	3.5
20°-30°	466.2	5.2
30°-40°	555.5	6.3
40°-50°	547.7	6.2
50°-60°	418.6	4.7
60°-70°	259.0	2.9
70°-80°	147.1	1.7
80°-90°	46.7	0.5
90°-100°	434.2	4.9
100°-110°	1174.0	13.2
110°-120°	1234.3	13.9
120°-130°	1002.6	11.3
130°-140°	786.5	8.9
140°-150°	603.6	6.8
150°-160°	434.1	4.9
160°-170°	265.2	3.0
170°-180°	89.4	1.0
0°-30°	883.4	9.9
0°-40°	1438.9	16.2
0°-60°	2405.2	27.1
0°-90°	2858.1	32.2
90°-120°	2842.6	32.0
90°-150°	5235.3	58.9
90°-180°	6024.0	67.8
0°-180°	8882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1148	1136	1140	1136	1134	109
15°	1105	1094	1098	1094	1092	312
25°	1024	1012	1018	1007	1006	471
35°	902	892	894	883	882	563
45°	730	721	717	704	703	559
55°	478	471	467	460	458	429
65°	257	255	258	256	256	260
75°	139	139	139	140	140	147
85°	35	37	39	39	39	41
90°	2	6	13	14	13	6
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°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.6	1139.6	1142.5	1140.0	1134.6
5°	1148.4	1135.9	1139.5	1135.6	1133.6
7.5°	1139.5	1127.2	1130.9	1126.9	1125.8
10°	1131.7	1120.1	1123.8	1119.8	1117.9
12.5°	1123.0	1110.7	1115.1	1110.4	1108.4
15°	1105.1	1093.6	1098.2	1094.2	1092.3
17.5°	1085.4	1073.1	1077.7	1073.2	1070.7
20°	1069.7	1058.1	1062.8	1055.9	1054.9
22.5°	1052.4	1040.8	1045.5	1036.2	1036.0
25°	1024.4	1011.9	1017.5	1006.7	1005.7
27.5°	991.1	979.6	984.3	973.2	972.1
30°	968.3	956.8	961.4	949.6	947.6
32.5°	942.3	931.6	935.4	923.6	922.5
35°	902.4	891.8	894.5	882.7	881.7
37.5°	856.9	847.3	848.9	835.8	834.9
40°	824.6	815.0	815.8	802.0	801.0
42.5°	789.2	779.6	778.8	765.0	764.0
45°	730.2	720.6	717.4	704.5	702.6
47.5°	662.9	653.2	647.3	636.9	635.5
50°	614.1	604.4	599.3	590.4	587.5
52.5°	561.3	551.7	547.3	539.2	536.3
55°	478.3	470.6	467.4	459.5	457.6
57.5°	399.3	394.1	393.2	385.5	384.8
60°	351.3	348.4	348.4	341.5	341.5
62.5°	310.4	308.3	309.8	305.2	304.5
65°	256.8	254.9	257.8	255.9	255.9
67.5°	214.5	214.5	216.3	215.5	215.5
70°	190.9	190.9	191.9	191.9	191.9
72.5°	169.7	168.9	171.4	171.4	170.6
75°	138.8	138.8	138.8	139.7	139.7
77.5°	108.0	108.2	109.0	108.8	108.0
80°	87.6	88.5	88.6	87.6	87.6
82.5°	67.1	68.1	68.1	67.9	67.1
85°	35.4	37.4	39.4	39.4	39.4
87.5°	10.6	14.5	18.4	18.5	17.6
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)