

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: P523945

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523945
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

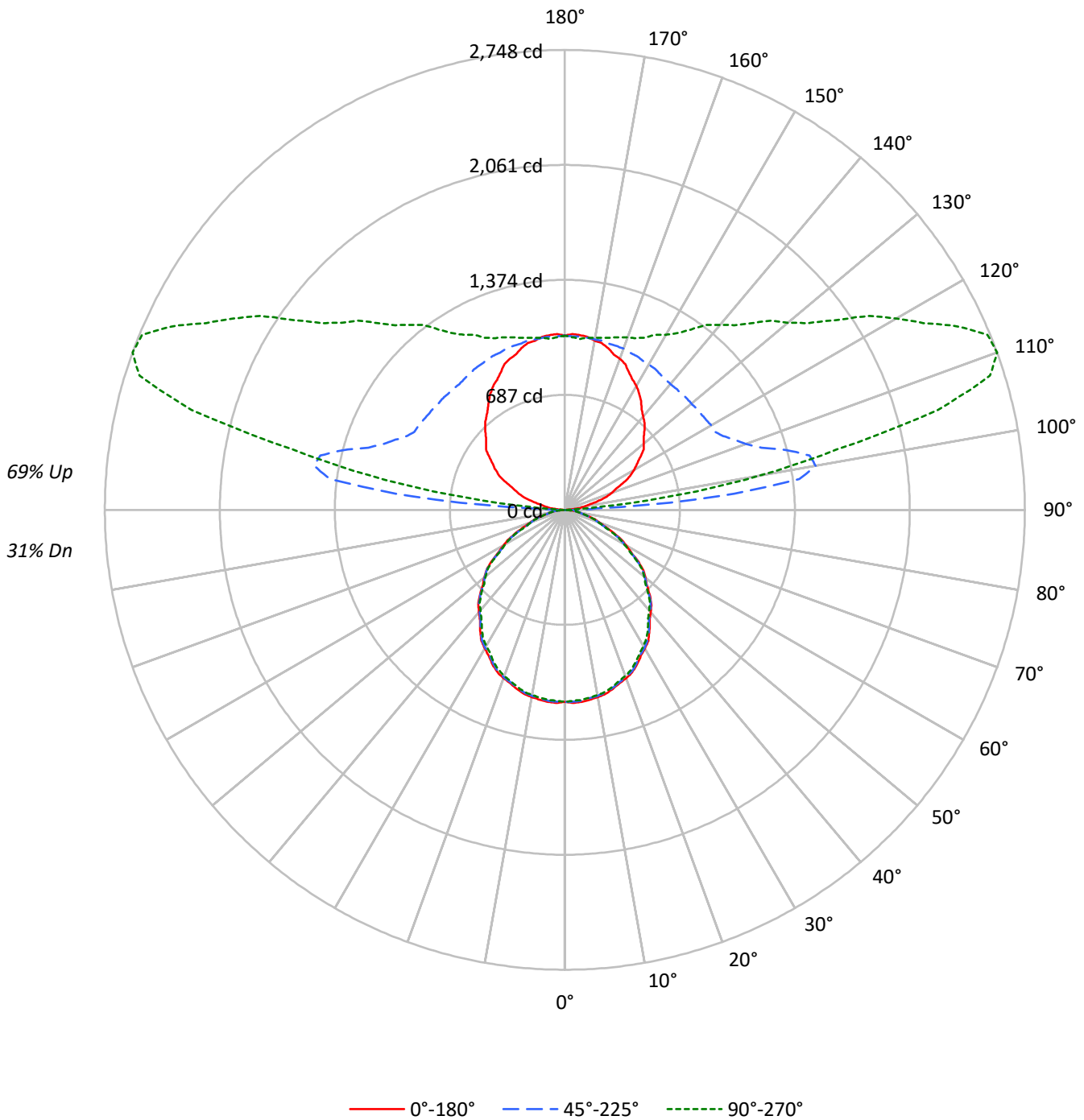
Lumens per Lamp: N/A
Luminaire Lumens: 9400.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	49	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10589	10589	10589
5°	10666	10602	10565
10°	10648	10573	10526
15°	10578	10520	10463
20°	10509	10449	10370
25°	10384	10311	10210
30°	10191	10138	10009
35°	9925	9856	9732
40°	9607	9546	9438
45°	9345	9280	9187
50°	9010	8951	8865
55°	8543	8430	8364
60°	7778	7554	7518
65°	6851	6567	6545
70°	5916	5670	5670
75°	5090	5019	4948
80°	4490	4543	4436
85°	3515	3832	3832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.2
10°-20°	309.9	3.3
20°-30°	464.2	4.9
30°-40°	544.4	5.8
40°-50°	546.1	5.8
50°-60°	465.9	5.0
60°-70°	303.8	3.2
70°-80°	152.4	1.6
80°-90°	42.2	0.4
90°-100°	474.1	5.0
100°-110°	1349.1	14.4
110°-120°	1292.6	13.7
120°-130°	1023.0	10.9
130°-140°	821.1	8.7
140°-150°	642.8	6.8
150°-160°	470.4	5.0
160°-170°	291.4	3.1
170°-180°	98.9	1.1
0°-30°	882.6	9.4
0°-40°	1427.0	15.2
0°-60°	2439.0	25.9
0°-90°	2937.5	31.2
90°-120°	3115.8	33.1
90°-150°	5602.8	59.6
90°-180°	6463.0	68.7
0°-180°	9400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1141	1145	1141	1141	109
15°	1108	1097	1101	1097	1095	312
25°	1020	1008	1013	1004	1003	469
35°	881	872	875	865	864	550
45°	716	711	711	704	704	551
55°	531	529	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
90°	0	0	0	0	0	3
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CATALOG NUMBER: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.7	1147.7	1147.7	1147.7	1147.7
2.5°	1155.0	1145.5	1147.7	1146.0	1141.3
5°	1151.7	1140.9	1144.7	1140.7	1140.7
7.5°	1143.9	1132.1	1135.8	1131.8	1131.6
10°	1136.6	1124.8	1128.6	1124.6	1123.6
12.5°	1126.2	1114.4	1118.9	1114.1	1113.9
15°	1107.5	1096.7	1101.4	1097.4	1095.4
17.5°	1086.4	1074.6	1080.3	1074.7	1073.9
20°	1070.3	1058.5	1064.2	1056.2	1056.2
22.5°	1050.9	1039.1	1045.7	1035.3	1035.3
25°	1020.0	1008.2	1012.9	1003.8	1002.9
27.5°	983.1	971.5	976.5	966.2	966.0
30°	956.6	945.8	951.6	940.5	939.5
32.5°	927.6	917.6	921.8	910.7	909.7
35°	881.2	872.3	875.1	865.0	864.1
37.5°	832.3	823.2	826.4	817.8	817.4
40°	797.7	791.8	792.6	785.5	783.6
42.5°	765.5	758.8	759.6	752.6	752.2
45°	716.2	711.3	711.2	704.1	704.1
47.5°	663.9	660.1	659.1	653.2	653.0
50°	627.7	624.7	623.6	618.6	617.6
52.5°	589.8	588.5	585.0	580.8	580.6
55°	531.1	529.1	524.1	521.0	520.0
57.5°	467.3	463.4	457.7	453.3	454.1
60°	421.5	417.5	409.4	407.4	407.4
62.5°	377.2	372.5	364.3	361.5	363.1
65°	313.8	307.9	300.8	298.8	299.8
67.5°	256.3	251.0	243.2	243.2	242.4
70°	219.3	216.3	210.2	210.2	210.2
72.5°	186.3	184.9	180.5	180.4	179.7
75°	142.8	142.8	140.8	139.8	138.8
77.5°	107.0	107.4	106.4	105.4	103.6
80°	84.5	86.5	85.5	84.5	83.5
82.5°	63.6	65.5	65.4	63.6	63.4
85°	33.2	36.1	36.2	36.2	36.2
87.5°	8.9	12.0	12.9	12.9	13.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)