

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: P561806

Luminaire Tested: **SQ4-PR1-025U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561806
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

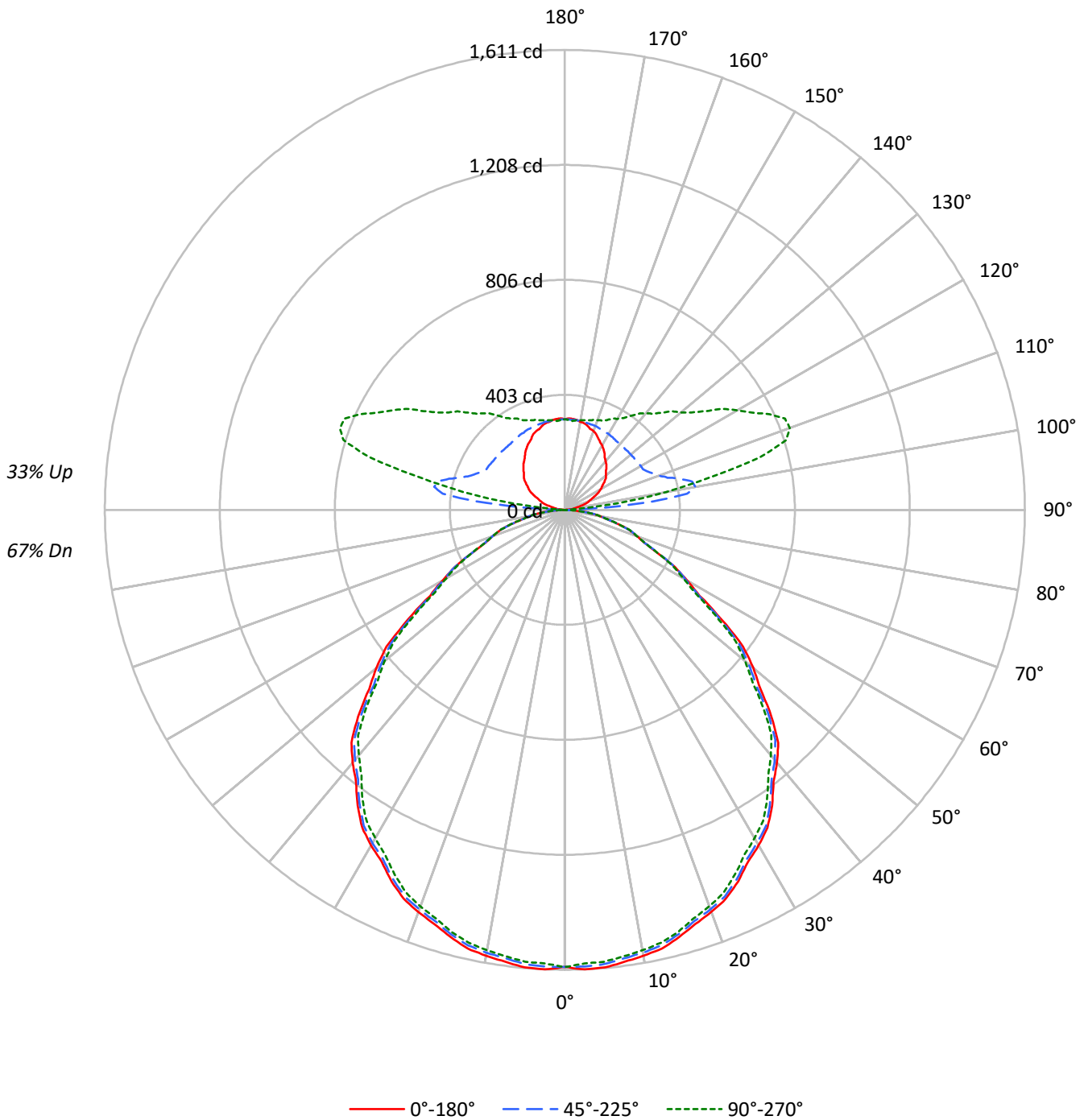
Lumens per Lamp: N/A
Luminaire Lumens: 5974.9 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.4
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57				
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	54	52	49				
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42				
4	78	67	59	53	74	64	57	51	57	52	47	51	47	43	46	42	39	36				
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31				
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30	28				
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	25				
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20				
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14773	14773	14773
5°	14905	14791	14715
10°	14858	14755	14678
15°	14794	14701	14622
20°	14719	14624	14515
25°	14615	14517	14349
30°	14458	14355	14149
35°	14244	14119	13918
40°	13919	13770	13521
45°	13352	13118	12848
50°	12353	12055	11817
55°	10782	10538	10316
60°	9084	9008	8831
65°	7859	7888	7829
70°	7219	7254	7254
75°	6933	6933	6980
80°	6519	6594	6519
85°	5251	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	2.5
10°-20°	433.2	7.3
20°-30°	653.4	10.9
30°-40°	778.5	13.0
40°-50°	767.6	12.8
50°-60°	586.6	9.8
60°-70°	363.0	6.1
70°-80°	206.2	3.5
80°-90°	62.7	1.0
90°-100°	144.7	2.4
100°-110°	411.6	6.9
110°-120°	394.4	6.6
120°-130°	312.1	5.2
130°-140°	250.5	4.2
140°-150°	196.1	3.3
150°-160°	143.5	2.4
160°-170°	88.9	1.5
170°-180°	30.2	0.5
0°-30°	1238.0	20.7
0°-40°	2016.6	33.8
0°-60°	3370.8	56.4
0°-90°	4002.7	67.0
90°-120°	950.7	15.9
90°-150°	1709.6	28.6
90°-180°	1972.0	33.0
0°-180°	5974.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1609	1592	1597	1592	1589	153
15°	1549	1533	1539	1534	1531	437
25°	1436	1418	1426	1411	1410	661
35°	1265	1250	1254	1237	1236	789
45°	1023	1010	1005	987	985	784
55°	670	660	655	644	641	601
65°	360	357	361	359	359	365
75°	194	194	194	196	196	205
85°	50	52	55	55	55	58
90°	0	0	0	0	0	3
95°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.2	1601.2	1601.2	1601.2	1601.2
2.5°	1611.1	1597.1	1601.2	1597.7	1590.1
5°	1609.4	1591.9	1597.0	1591.5	1588.8
7.5°	1597.0	1579.8	1584.9	1579.3	1577.7
10°	1586.0	1569.8	1575.0	1569.4	1566.7
12.5°	1573.9	1556.6	1562.8	1556.1	1553.4
15°	1548.8	1532.6	1539.1	1533.5	1530.8
17.5°	1521.2	1503.9	1510.4	1504.0	1500.5
20°	1499.1	1482.9	1489.5	1479.8	1478.4
22.5°	1474.8	1458.7	1465.2	1452.2	1451.9
25°	1435.7	1418.1	1426.0	1410.8	1409.5
27.5°	1389.1	1372.9	1379.4	1363.9	1362.3
30°	1357.1	1340.9	1347.4	1330.8	1328.1
32.5°	1320.7	1305.5	1311.0	1294.4	1292.8
35°	1264.7	1249.8	1253.6	1237.0	1235.7
37.5°	1200.9	1187.5	1189.6	1171.4	1170.1
40°	1155.7	1142.2	1143.3	1124.0	1122.6
42.5°	1106.1	1092.6	1091.4	1072.1	1070.8
45°	1023.3	1009.8	1005.4	987.4	984.7
47.5°	929.0	915.5	907.2	892.5	890.6
50°	860.6	847.1	839.9	827.4	823.3
52.5°	786.7	773.2	767.1	755.7	751.6
55°	670.3	659.5	655.1	644.0	641.3
57.5°	559.6	552.4	551.1	540.3	539.2
60°	492.3	488.3	488.2	478.6	478.6
62.5°	435.0	432.0	434.1	427.8	426.7
65°	360.0	357.3	361.3	358.6	358.6
67.5°	300.6	300.6	303.1	302.0	302.0
70°	267.6	267.6	268.9	268.9	268.9
72.5°	237.8	236.7	240.2	240.2	239.1
75°	194.5	194.5	194.5	195.8	195.8
77.5°	151.4	151.7	152.8	152.5	151.4
80°	122.7	124.1	124.1	122.7	122.7
82.5°	94.1	95.4	95.4	95.1	94.1
85°	49.6	52.3	55.2	55.2	55.2
87.5°	14.3	18.7	22.1	22.0	21.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>101.8</i>	128.1	333.8	729.7	834.1
115°	<i>118.9</i>	143.7	318.1	673.9	791.3
117.5°	<i>134.0</i>	157.3	308.8	612.8	737.2
120°	<i>146.1</i>	165.5	307.8	577.9	697.2
122.5°	<i>155.7</i>	175.2	305.4	547.3	658.0
125°	<i>167.8</i>	186.1	303.6	503.8	602.4
127.5°	<i>181.0</i>	198.1	302.6	477.8	559.1
130°	<i>187.7</i>	204.8	301.2	459.7	530.6
132.5°	<i>195.0</i>	211.6	301.2	445.6	510.8
135°	<i>205.2</i>	222.3	300.0	425.6	481.1
137.5°	<i>214.9</i>	231.5	299.9	408.6	456.6
140°	<i>222.1</i>	239.2	299.4	394.6	440.6
142.5°	<i>230.3</i>	244.6	300.8	383.4	424.7
145°	<i>242.0</i>	254.4	302.4	368.3	401.4
147.5°	<i>252.1</i>	264.1	305.1	353.2	381.7
150°	<i>260.8</i>	269.0	306.0	348.1	368.2
152.5°	<i>267.5</i>	276.2	307.0	341.3	360.0
155°	<i>276.4</i>	282.9	309.6	332.9	346.5
157.5°	<i>287.6</i>	291.4	310.2	329.1	338.7
160°	<i>293.3</i>	296.3	312.7	326.1	334.4
162.5°	<i>296.7</i>	300.2	313.1	323.7	330.0
165°	<i>305.4</i>	306.6	313.3	320.0	324.7
167.5°	<i>311.3</i>	310.3	316.0	319.1	321.0
170°	<i>313.3</i>	312.7	315.1	315.7	318.1
172.5°	<i>317.6</i>	315.6	316.5	314.8	316.6
175°	<i>319.9</i>	318.1	316.9	315.0	312.7
177.5°	<i>320.9</i>	318.0	316.5	314.6	315.1
180°	<i>317.5</i>	317.5	317.5	317.5	317.5

(END OF REPORT)