

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: P562559

Luminaire Tested: **SQ4-PC3-025U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562559
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

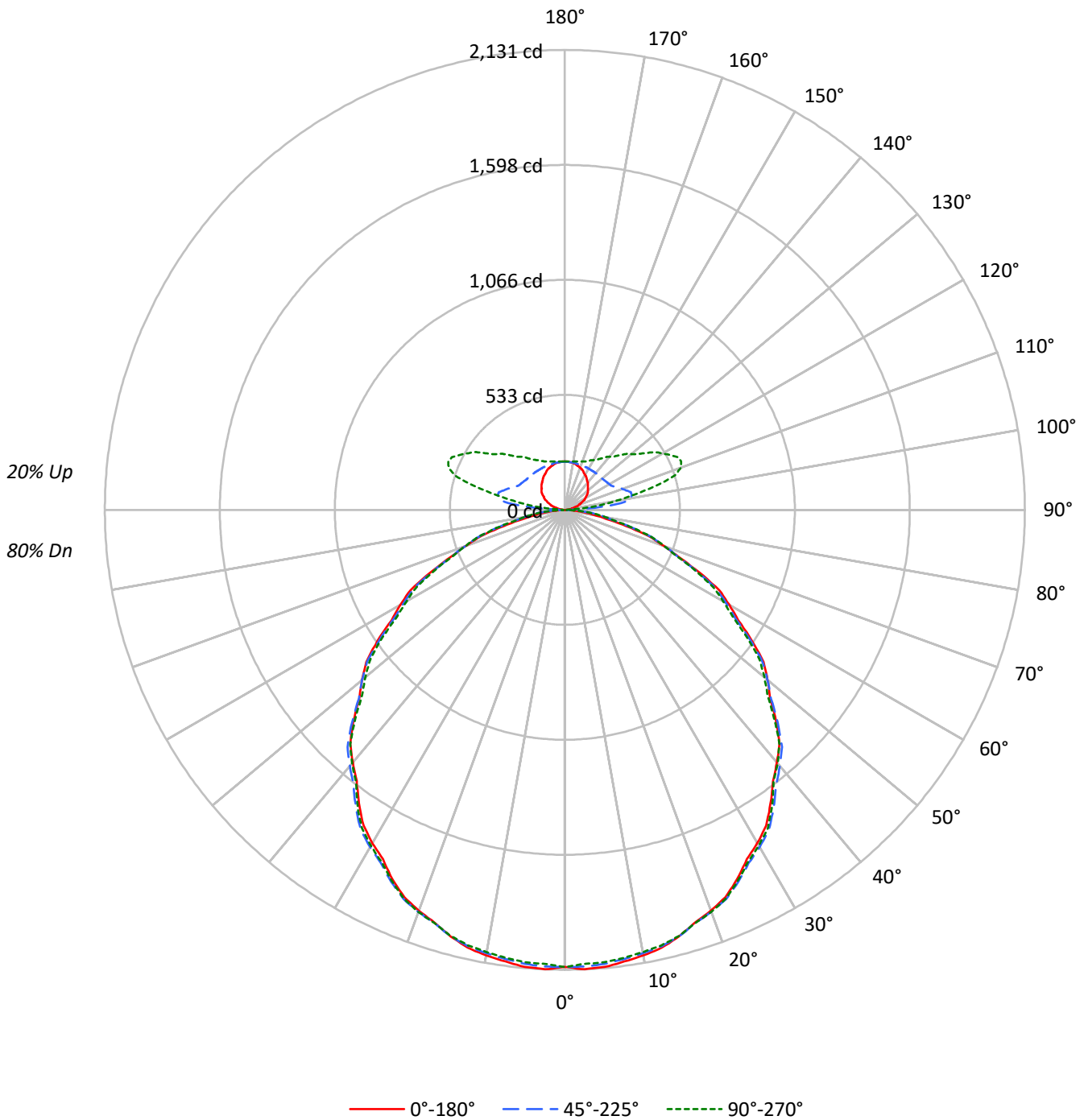
Lumens per Lamp: N/A
Luminaire Lumens: 7231.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12912	12872
30°	12662	12815	12759
35°	12474	12665	12576
40°	12267	12441	12315
45°	12045	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8783
75°	7039	7783	7831
80°	5001	6599	6670
85°	3042	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	2.8
10°-20°	575.3	8.0
20°-30°	871.2	12.0
30°-40°	1044.4	14.4
40°-50°	1065.0	14.7
50°-60°	929.6	12.9
60°-70°	665.5	9.2
70°-80°	342.8	4.7
80°-90°	87.9	1.2
90°-100°	108.9	1.5
100°-110°	286.4	4.0
110°-120°	297.0	4.1
120°-130°	238.2	3.3
130°-140°	186.9	2.6
140°-150°	143.5	2.0
150°-160°	103.3	1.4
160°-170°	63.2	0.9
170°-180°	21.4	0.3
0°-30°	1646.9	22.8
0°-40°	2691.3	37.2
0°-60°	4685.9	64.8
0°-90°	5782.2	80.0
90°-120°	692.3	9.6
90°-150°	1261.0	17.4
90°-180°	1449.0	20.0
0°-180°	7231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2105	2112	2106	2104	202
15°	2046	2028	2046	2046	2044	577
25°	1889	1875	1902	1897	1897	869
35°	1661	1657	1687	1675	1675	1039
45°	1385	1381	1394	1377	1373	1066
55°	1059	1046	1045	1030	1030	944
65°	686	671	673	667	667	679
75°	296	310	328	330	330	320
85°	43	66	78	80	78	59
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2130.7	2112.3	2118.2	2113.3	2105.6
5°	2126.0	2104.9	2112.3	2106.4	2104.5
7.5°	2110.7	2089.6	2099.4	2095.4	2093.5
10°	2096.6	2075.5	2086.8	2082.8	2080.9
12.5°	2077.8	2058.2	2071.1	2067.2	2066.8
15°	2045.6	2028.4	2045.6	2045.6	2043.7
17.5°	2005.2	1989.5	2008.0	2009.1	2008.0
20°	1977.0	1959.7	1982.9	1980.9	1982.9
22.5°	1942.5	1928.3	1953.1	1948.0	1949.9
25°	1888.7	1875.3	1902.5	1896.6	1896.6
27.5°	1825.2	1815.6	1845.2	1838.9	1838.9
30°	1782.8	1773.2	1804.4	1796.5	1796.5
32.5°	1735.7	1729.2	1758.9	1749.5	1749.5
35°	1661.2	1657.4	1686.7	1674.9	1674.9
37.5°	1584.3	1580.9	1607.5	1593.2	1588.6
40°	1527.8	1525.9	1549.4	1533.7	1533.7
42.5°	1471.4	1469.4	1489.8	1471.0	1471.0
45°	1384.7	1380.8	1394.5	1376.7	1372.9
47.5°	1290.1	1286.3	1294.8	1275.6	1273.7
50°	1225.8	1222.0	1225.8	1208.1	1206.2
52.5°	1159.9	1153.0	1153.6	1136.0	1135.6
55°	1059.1	1045.7	1045.4	1029.7	1029.7
57.5°	952.4	934.8	936.3	922.9	921.0
60°	878.7	859.5	861.0	849.2	847.3
62.5°	806.5	784.2	788.8	775.5	775.1
65°	686.5	671.1	672.7	666.8	666.8
67.5°	571.1	556.9	567.2	562.5	562.1
70°	486.4	476.8	490.3	490.3	488.4
72.5°	407.9	407.6	424.4	424.4	425.6
75°	296.2	309.6	327.5	329.5	329.5
77.5°	197.7	221.5	241.2	242.0	241.6
80°	141.2	168.1	186.3	190.2	188.3
82.5°	95.7	124.1	139.3	143.1	141.2
85°	43.1	66.2	78.5	80.4	78.5
87.5°	12.8	27.2	33.7	32.5	29.4
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)