

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: P561563

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561563
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-075U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

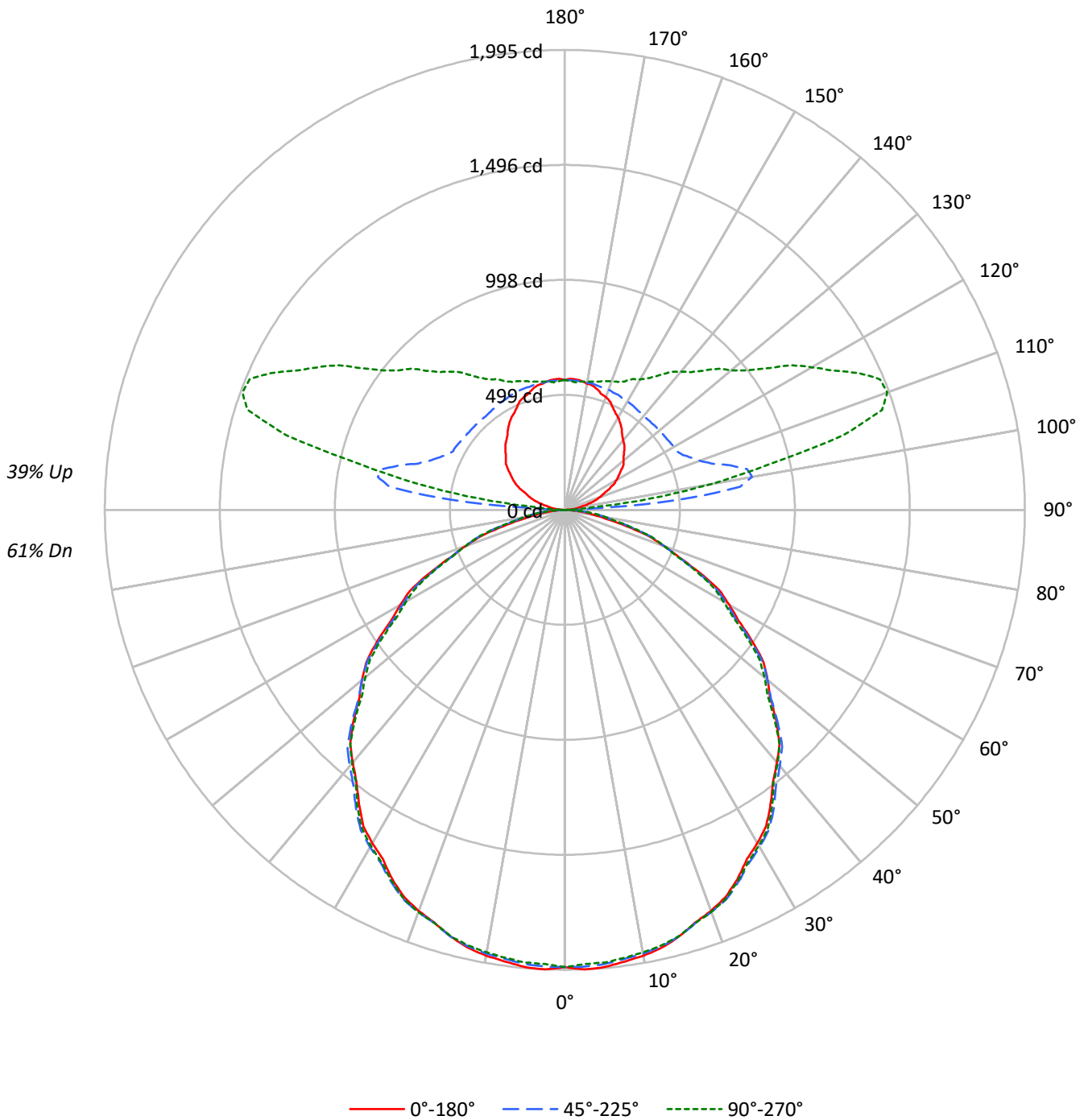
Lumens per Lamp: N/A
Luminaire Lumens: 8913.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.9
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18301	18301	18301
5°	18440	18320	18252
10°	18394	18308	18256
15°	18298	18298	18280
20°	18178	18232	18232
25°	18005	18137	18081
30°	17786	18001	17923
35°	17522	17790	17666
40°	17232	17476	17299
45°	16919	17039	16776
50°	16476	16476	16214
55°	15953	15746	15511
60°	15183	14878	14640
65°	14033	13754	13633
70°	12287	12387	12336
75°	9885	10933	11001
80°	7024	9271	9367
85°	4277	7781	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	2.1
10°-20°	538.7	6.0
20°-30°	815.8	9.2
30°-40°	978.1	11.0
40°-50°	997.3	11.2
50°-60°	870.6	9.8
60°-70°	623.3	7.0
70°-80°	321.0	3.6
80°-90°	81.2	0.9
90°-100°	256.7	2.9
100°-110°	730.5	8.2
110°-120°	699.9	7.9
120°-130°	553.9	6.2
130°-140°	444.6	5.0
140°-150°	348.1	3.9
150°-160°	254.7	2.9
160°-170°	157.8	1.8
170°-180°	53.5	0.6
0°-30°	1542.3	17.3
0°-40°	2520.4	28.3
0°-60°	4388.2	49.2
0°-90°	5413.7	60.7
90°-120°	1687.1	18.9
90°-150°	3033.8	34.0
90°-180°	3500.0	39.3
0°-180°	8913.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1991	1971	1978	1973	1971	189
15°	1916	1900	1916	1916	1914	540
25°	1769	1756	1782	1776	1776	814
35°	1556	1552	1580	1568	1568	973
45°	1297	1293	1306	1289	1286	998
55°	992	979	979	964	964	884
65°	643	628	630	624	624	636
75°	277	290	307	309	309	300
85°	40	62	74	75	74	55
90°	0	0	0	0	0	3
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

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CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1995.4	1978.1	1983.6	1979.0	1971.9
5°	1991.0	1971.2	1978.1	1972.6	1970.8
7.5°	1976.6	1956.9	1966.0	1962.3	1960.5
10°	1963.4	1943.7	1954.2	1950.5	1948.7
12.5°	1945.8	1927.5	1939.5	1935.9	1935.5
15°	1915.7	1899.5	1915.7	1915.6	1913.8
17.5°	1877.8	1863.1	1880.4	1881.5	1880.4
20°	1851.4	1835.2	1856.9	1855.1	1856.9
22.5°	1819.0	1805.8	1829.0	1824.2	1826.0
25°	1768.7	1756.2	1781.6	1776.1	1776.1
27.5°	1709.2	1700.2	1727.9	1722.1	1722.1
30°	1669.5	1660.6	1689.7	1682.4	1682.4
32.5°	1625.5	1619.4	1647.1	1638.3	1638.3
35°	1555.7	1552.1	1579.5	1568.5	1568.5
37.5°	1483.7	1480.4	1505.3	1492.0	1487.7
40°	1430.8	1429.0	1451.0	1436.3	1436.3
42.5°	1377.9	1376.1	1395.1	1377.5	1377.5
45°	1296.7	1293.1	1305.9	1289.3	1285.7
47.5°	1208.2	1204.6	1212.6	1194.5	1192.7
50°	1147.9	1144.3	1147.9	1131.4	1129.6
52.5°	1086.2	1079.7	1080.3	1063.8	1063.4
55°	991.8	979.2	978.9	964.3	964.3
57.5°	891.9	875.4	876.8	864.3	862.5
60°	822.8	804.9	806.3	795.2	793.4
62.5°	755.2	734.4	738.7	726.2	725.9
65°	642.8	628.5	630.0	624.5	624.5
67.5°	534.8	521.6	531.2	526.8	526.4
70°	455.5	446.5	459.2	459.1	457.3
72.5°	382.0	381.7	397.5	397.5	398.6
75°	277.3	289.9	306.7	308.6	308.6
77.5°	185.1	207.4	225.9	226.6	226.3
80°	132.2	157.4	174.5	178.1	176.3
82.5°	89.6	116.2	130.4	134.0	132.2
85°	40.4	62.0	73.5	75.3	73.5
87.5°	11.8	24.7	29.4	29.3	26.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)