

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: P563439

Luminaire Tested: **SQ4-PP3-075U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563439
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

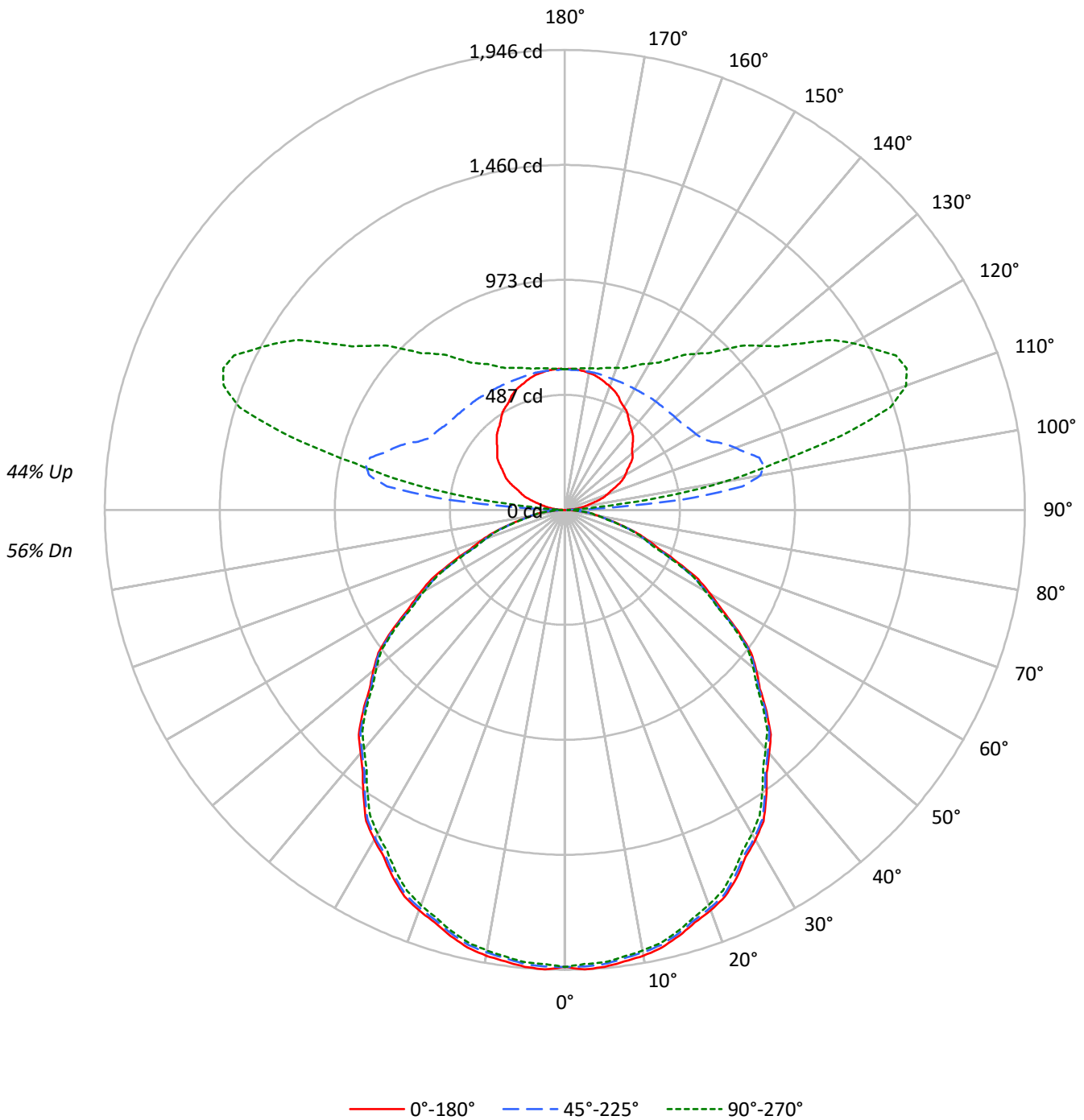
Lumens per Lamp: N/A
Luminaire Lumens: 8833.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11984	11910	11868
10°	11964	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11585	11469
30°	11449	11389	11244
35°	11150	11073	10933
40°	10793	10725	10603
45°	10498	10424	10322
50°	10121	10057	9959
55°	9598	9470	9398
60°	8737	8487	8445
65°	7698	7376	7351
70°	6645	6372	6372
75°	5720	5639	5559
80°	5044	5104	4984
85°	3945	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	2.1
10°-20°	522.2	5.9
20°-30°	782.2	8.9
30°-40°	917.5	10.4
40°-50°	920.3	10.4
50°-60°	785.1	8.9
60°-70°	512.0	5.8
70°-80°	256.9	2.9
80°-90°	72.6	0.8
90°-100°	281.1	3.2
100°-110°	773.3	8.8
110°-120°	798.1	9.0
120°-130°	639.5	7.2
130°-140°	502.3	5.7
140°-150°	384.9	4.4
150°-160°	276.7	3.1
160°-170°	169.2	1.9
170°-180°	57.0	0.6
0°-30°	1487.3	16.8
0°-40°	2404.8	27.2
0°-60°	4110.2	46.5
0°-90°	4951.7	56.1
90°-120°	1852.5	21.0
90°-150°	3379.1	38.3
90°-180°	3882.0	43.9
0°-180°	8833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1941	1923	1929	1922	1922	184
15°	1866	1848	1856	1849	1846	527
25°	1719	1699	1707	1692	1690	790
35°	1485	1470	1475	1458	1456	928
45°	1207	1199	1198	1187	1187	929
55°	895	892	883	878	876	795
65°	529	519	507	504	505	528
75°	241	241	237	236	234	261
85°	56	61	61	61	61	66
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1946.3	1930.4	1934.1	1931.2	1923.3
5°	1940.9	1922.7	1929.0	1922.2	1922.2
7.5°	1927.7	1907.8	1914.1	1907.3	1907.0
10°	1915.5	1895.6	1901.9	1895.1	1893.4
12.5°	1897.8	1877.9	1885.6	1877.5	1877.1
15°	1866.3	1848.1	1856.1	1849.3	1846.0
17.5°	1830.7	1810.8	1820.5	1811.0	1809.7
20°	1803.6	1783.7	1793.4	1779.8	1779.8
22.5°	1771.0	1751.1	1762.2	1744.6	1744.6
25°	1718.8	1698.9	1707.0	1691.7	1690.0
27.5°	1656.8	1637.2	1645.6	1628.3	1628.0
30°	1612.0	1593.8	1603.6	1584.9	1583.2
32.5°	1563.2	1546.3	1553.4	1534.7	1533.0
35°	1484.9	1470.0	1474.7	1457.7	1456.1
37.5°	1402.5	1387.3	1392.7	1378.1	1377.4
40°	1344.2	1334.3	1335.7	1323.8	1320.5
42.5°	1290.0	1278.7	1280.1	1268.3	1267.6
45°	1206.9	1198.6	1198.4	1186.6	1186.6
47.5°	1118.8	1112.5	1110.6	1100.8	1100.5
50°	1057.7	1052.8	1051.0	1042.4	1040.8
52.5°	994.0	991.7	985.9	978.7	978.4
55°	895.0	891.7	883.1	878.0	876.4
57.5°	787.5	780.9	771.3	763.8	765.2
60°	710.2	703.6	689.9	686.5	686.5
62.5°	635.7	627.7	614.0	609.3	611.9
65°	528.9	518.9	506.8	503.5	505.1
67.5°	431.9	423.0	409.9	409.8	408.5
70°	369.5	364.6	354.3	354.3	354.3
72.5°	313.9	311.6	304.1	304.1	302.7
75°	240.7	240.7	237.3	235.6	233.9
77.5°	180.4	181.0	179.3	177.6	174.6
80°	142.4	145.7	144.1	142.4	140.7
82.5°	107.1	110.4	110.2	107.1	106.8
85°	55.9	60.9	61.0	61.0	61.0
87.5°	15.2	21.2	23.5	24.0	25.3
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)