

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: P564099

Luminaire Tested: **SQ4-PR1-075U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564099
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

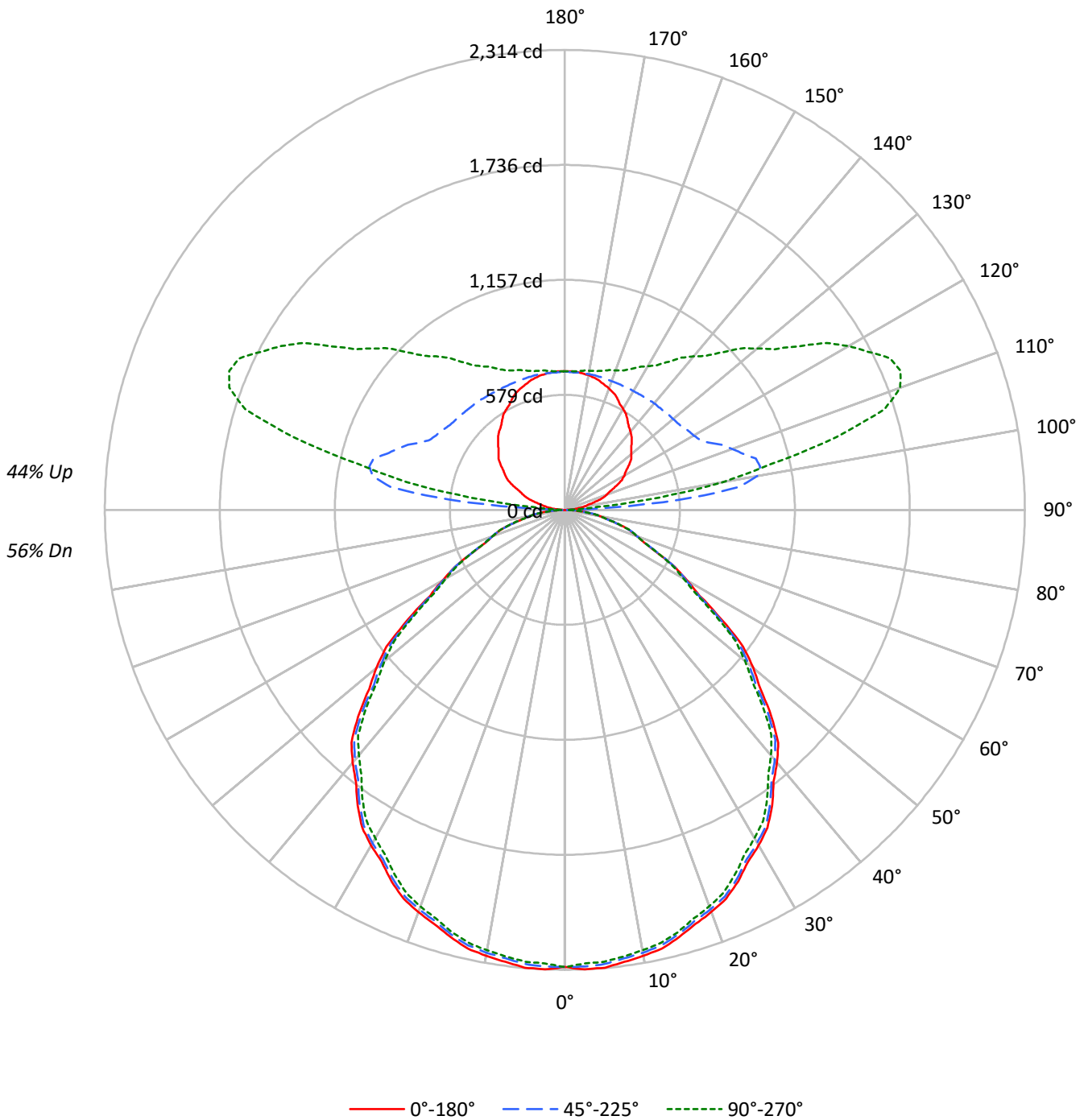
Lumens per Lamp: N/A
Luminaire Lumens: 10287.3 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14055
15°	14166	14078	14002
20°	14095	14004	13901
25°	13995	13902	13740
30°	13845	13747	13549
35°	13640	13521	13328
40°	13329	13187	12948
45°	12786	12562	12303
50°	11829	11544	11317
55°	10325	10091	9879
60°	8700	8627	8456
65°	7524	7554	7497
70°	6911	6947	6947
75°	6638	6638	6685
80°	6245	6316	6245
85°	5032	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	2.1
10°-20°	622.3	6.0
20°-30°	938.6	9.1
30°-40°	1118.3	10.9
40°-50°	1102.6	10.7
50°-60°	842.6	8.2
60°-70°	521.5	5.1
70°-80°	296.2	2.9
80°-90°	91.9	0.9
90°-100°	328.4	3.2
100°-110°	903.5	8.8
110°-120°	932.6	9.1
120°-130°	747.2	7.3
130°-140°	586.8	5.7
140°-150°	449.7	4.4
150°-160°	323.3	3.1
160°-170°	197.7	1.9
170°-180°	66.6	0.6
0°-30°	1778.4	17.3
0°-40°	2896.7	28.2
0°-60°	4841.9	47.1
0°-90°	5751.4	55.9
90°-120°	2164.4	21.0
90°-150°	3948.2	38.4
90°-180°	4536.0	44.1
0°-180°	10287.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2312	2287	2294	2286	2282	219
15°	2225	2201	2211	2203	2199	628
25°	2062	2037	2048	2026	2025	949
35°	1817	1795	1801	1777	1775	1134
45°	1470	1450	1444	1418	1414	1126
55°	963	947	941	925	921	863
65°	517	513	519	515	515	524
75°	279	279	279	281	281	295
85°	71	75	79	79	79	83
90°	2	6	10	13	13	6
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2300.0	2300.0	2300.0	2300.0	2300.0
2.5°	2314.2	2294.1	2300.0	2295.0	2284.1
5°	2311.9	2286.7	2294.0	2286.0	2282.1
7.5°	2294.0	2269.2	2276.6	2268.6	2266.3
10°	2278.2	2254.9	2262.3	2254.3	2250.4
12.5°	2260.7	2235.9	2244.9	2235.3	2231.4
15°	2224.7	2201.4	2210.8	2202.8	2198.9
17.5°	2185.1	2160.3	2169.6	2160.4	2155.4
20°	2153.4	2130.1	2139.5	2125.6	2123.7
22.5°	2118.5	2095.3	2104.6	2086.0	2085.6
25°	2062.2	2037.1	2048.4	2026.5	2024.6
27.5°	1995.3	1972.0	1981.4	1959.2	1956.9
30°	1949.3	1926.1	1935.5	1911.6	1907.7
32.5°	1897.0	1875.3	1883.2	1859.3	1857.0
35°	1816.6	1795.3	1800.7	1776.9	1775.0
37.5°	1725.1	1705.7	1708.8	1682.6	1680.7
40°	1660.1	1640.7	1642.3	1614.5	1612.6
42.5°	1588.8	1569.4	1567.8	1540.0	1538.1
45°	1469.9	1450.5	1444.2	1418.3	1414.4
47.5°	1334.4	1315.0	1303.1	1282.1	1279.3
50°	1236.2	1216.8	1206.4	1188.5	1182.7
52.5°	1130.0	1110.6	1101.8	1085.5	1079.7
55°	962.8	947.3	941.0	925.0	921.2
57.5°	803.9	793.4	791.6	776.1	774.6
60°	707.2	701.4	701.3	687.4	687.4
62.5°	624.8	620.6	623.6	614.5	612.9
65°	517.0	513.2	519.0	515.1	515.1
67.5°	431.9	431.9	435.4	433.8	433.8
70°	384.3	384.3	386.3	386.3	386.3
72.5°	341.5	340.0	345.1	345.1	343.5
75°	279.3	279.3	279.3	281.3	281.3
77.5°	217.5	217.9	219.5	219.1	217.5
80°	176.3	178.2	178.3	176.3	176.3
82.5°	135.1	137.0	137.1	136.7	135.1
85°	71.3	75.2	79.2	79.2	79.2
87.5°	20.9	28.0	33.8	34.3	32.8
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)