

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: P564195

Luminaire Tested: **SQ4-PR1-0U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564195
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

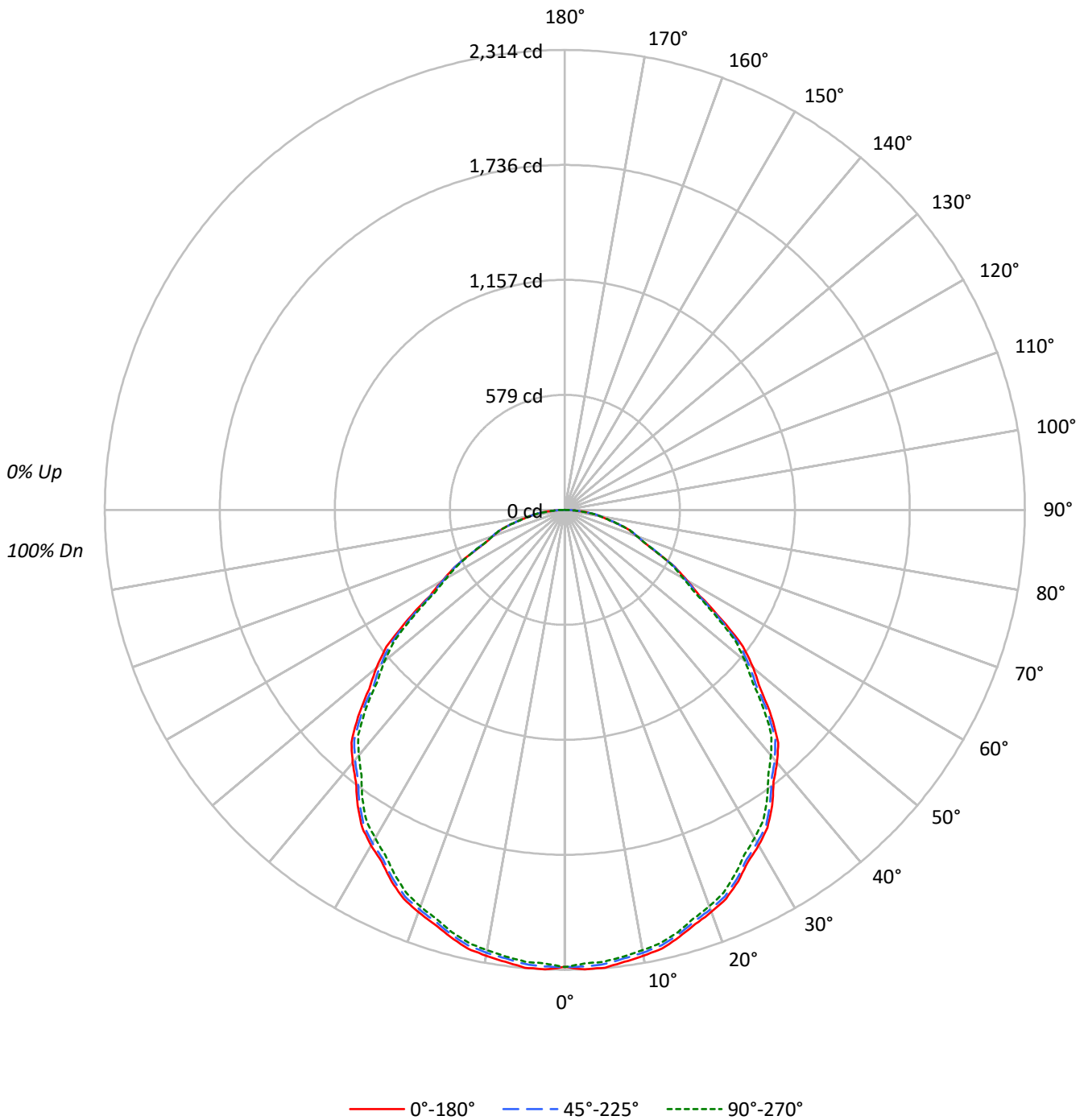
Lumens per Lamp: N/A
Luminaire Lumens: 5749.6 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

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	3.8
10°-20°	622.3	10.8
20°-30°	938.6	16.3
30°-40°	1118.3	19.5
40°-50°	1102.6	19.2
50°-60°	842.6	14.7
60°-70°	521.5	9.1
70°-80°	296.2	5.2
80°-90°	90.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1778.4	30.9
0°-40°	2896.7	50.4
0°-60°	4841.9	84.2
0°-90°	5749.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5749.6	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	86
90°	0	0	0	0	0	



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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°	20.6	26.8	31.7	31.7	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)