

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: P562838

Luminaire Tested: **SQ4-PC3-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562838
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

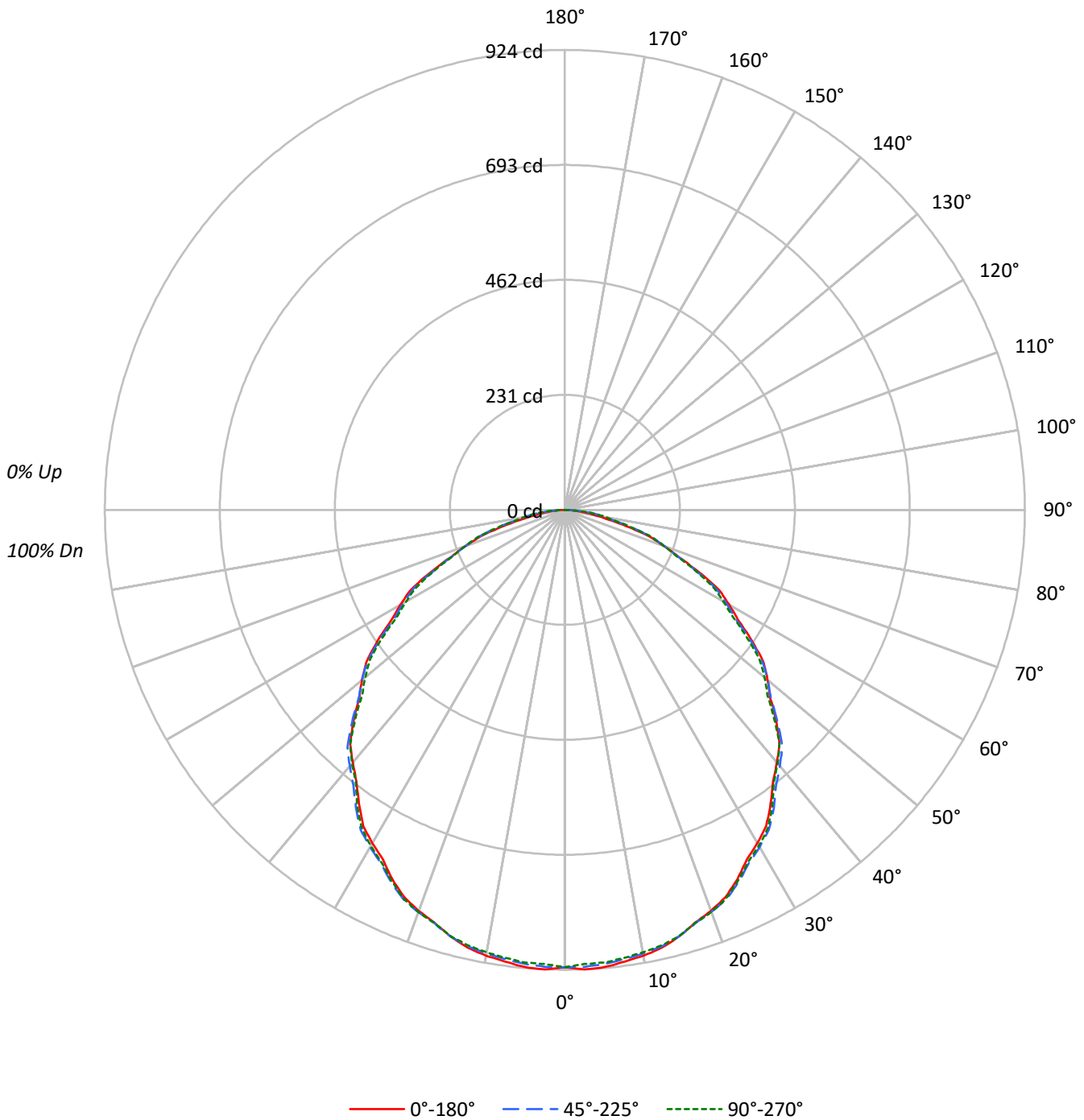
Lumens per Lamp: N/A
Luminaire Lumens: 2507.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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										
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	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60						60														
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51						51														
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44						44														
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39						39														
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34						34														
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31						31														
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28						28														
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.5
10°-20°	249.5	10.0
20°-30°	377.9	15.1
30°-40°	453.0	18.1
40°-50°	461.9	18.4
50°-60°	403.2	16.1
60°-70°	288.7	11.5
70°-80°	148.7	5.9
80°-90°	37.6	1.5
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°	714.3	28.5
0°-40°	1167.3	46.6
0°-60°	2032.5	81.1
0°-90°	2507.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	924.2	916.2	918.8	916.6	913.3
5°	922.2	913.0	916.2	913.6	912.8
7.5°	915.5	906.4	910.6	908.9	908.0
10°	909.4	900.3	905.1	903.4	902.6
12.5°	901.2	892.8	898.3	896.6	896.5
15°	887.3	879.8	887.3	887.3	886.4
17.5°	869.8	862.9	870.9	871.4	870.9
20°	857.5	850.0	860.1	859.2	860.1
22.5°	842.5	836.4	847.1	844.9	845.8
25°	819.2	813.4	825.2	822.6	822.6
27.5°	791.7	787.5	800.3	797.6	797.6
30°	773.3	769.1	782.6	779.2	779.2
32.5°	752.9	750.0	762.9	758.8	758.8
35°	720.5	718.9	731.6	726.5	726.5
37.5°	687.2	685.7	697.2	691.1	689.1
40°	662.7	661.9	672.1	665.2	665.2
42.5°	638.2	637.4	646.2	638.0	638.0
45°	600.6	598.9	604.8	597.2	595.5
47.5°	559.6	557.9	561.6	553.3	552.4
50°	531.7	530.0	531.7	524.0	523.2
52.5°	503.1	500.1	500.4	492.7	492.6
55°	459.4	453.6	453.4	446.6	446.6
57.5°	413.1	405.4	406.1	400.3	399.5
60°	381.1	372.8	373.5	368.3	367.5
62.5°	349.8	340.2	342.2	336.4	336.2
65°	297.7	291.1	291.8	289.2	289.2
67.5°	247.7	241.6	246.0	244.0	243.8
70°	211.0	206.8	212.7	212.7	211.8
72.5°	176.9	176.8	184.1	184.1	184.6
75°	128.5	134.3	142.1	142.9	142.9
77.5°	85.8	96.1	104.6	105.0	104.8
80°	61.3	72.9	80.8	82.5	81.7
82.5°	41.5	53.8	60.4	62.1	61.3
85°	18.7	28.7	34.0	34.9	34.0
87.5°	5.4	11.4	13.6	13.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)