

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: P564198

Luminaire Tested: **SQ4-PR1-0U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564198
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

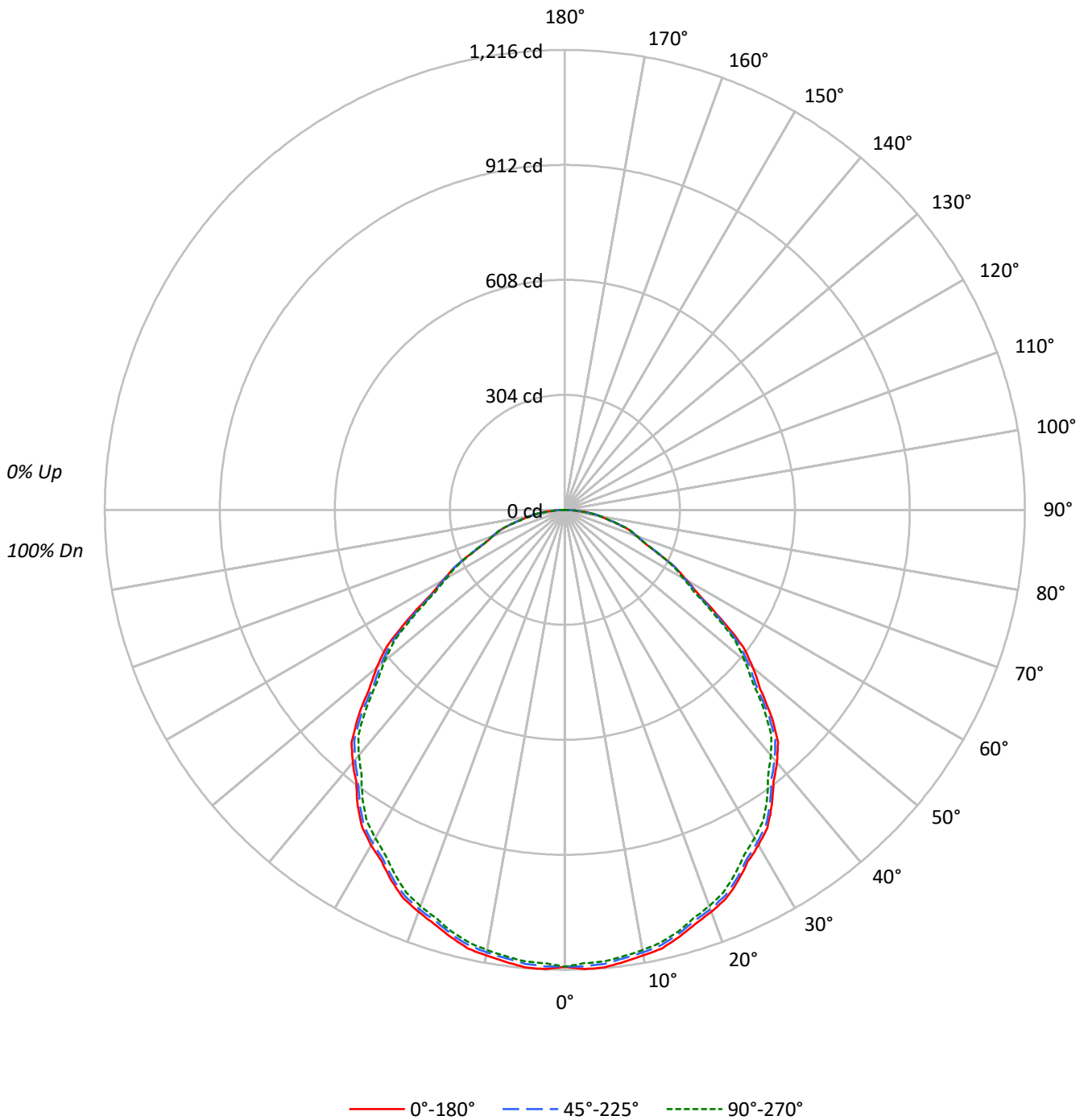
Lumens per Lamp: N/A
Luminaire Lumens: 3019.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11209	11132	11074
15°	11160	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10829	10675
35°	10746	10653	10501
40°	10501	10388	10200
45°	10073	9897	9693
50°	9320	9094	8916
55°	8134	7949	7782
60°	6853	6796	6661
65°	5929	5951	5905
70°	5446	5473	5473
75°	5229	5229	5265
80°	4920	4973	4920
85°	3970	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.8
10°-20°	326.8	10.8
20°-30°	493.0	16.3
30°-40°	587.4	19.5
40°-50°	579.1	19.2
50°-60°	442.6	14.7
60°-70°	273.9	9.1
70°-80°	155.5	5.2
80°-90°	47.3	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°	934.0	30.9
0°-40°	1521.4	50.4
0°-60°	2543.1	84.2
0°-90°	3019.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1201	1205	1201	1199	115
15°	1168	1156	1161	1157	1155	330
25°	1083	1070	1076	1064	1063	498
35°	954	943	946	933	932	595
45°	772	762	758	745	743	591
55°	506	498	494	486	484	453
65°	272	270	273	270	270	275
75°	147	147	147	148	148	155
85°	38	40	42	42	42	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1215.5	1204.9	1208.0	1205.4	1199.7
5°	1214.2	1201.0	1204.9	1200.7	1198.6
7.5°	1204.9	1191.8	1195.7	1191.5	1190.3
10°	1196.5	1184.3	1188.2	1184.0	1182.0
12.5°	1187.4	1174.4	1179.1	1174.0	1172.0
15°	1168.4	1156.2	1161.2	1157.0	1154.9
17.5°	1147.6	1134.6	1139.5	1134.7	1132.0
20°	1131.0	1118.8	1123.7	1116.4	1115.4
22.5°	1112.7	1100.5	1105.4	1095.6	1095.4
25°	1083.1	1069.9	1075.8	1064.4	1063.4
27.5°	1048.0	1035.8	1040.7	1029.0	1027.8
30°	1023.8	1011.6	1016.5	1004.0	1002.0
32.5°	996.4	985.0	989.1	976.6	975.3
35°	954.1	942.9	945.8	933.3	932.3
37.5°	906.0	895.9	897.5	883.8	882.7
40°	871.9	861.7	862.5	848.0	846.9
42.5°	834.5	824.3	823.4	808.8	807.8
45°	772.0	761.9	758.5	744.9	742.9
47.5°	700.9	690.7	684.4	673.4	671.9
50°	649.3	639.1	633.6	624.2	621.2
52.5°	593.5	583.3	578.7	570.1	567.1
55°	505.7	497.5	494.2	485.9	483.8
57.5°	422.2	416.7	415.8	407.6	406.8
60°	371.4	368.4	368.3	361.0	361.0
62.5°	328.2	325.9	327.5	322.7	321.9
65°	271.6	269.5	272.6	270.5	270.5
67.5°	226.8	226.8	228.7	227.9	227.9
70°	201.9	201.9	202.9	202.9	202.9
72.5°	179.4	178.6	181.2	181.2	180.4
75°	146.7	146.7	146.7	147.7	147.7
77.5°	114.2	114.4	115.3	115.1	114.2
80°	92.6	93.6	93.6	92.6	92.6
82.5°	71.0	72.0	72.0	71.8	71.0
85°	37.5	39.5	41.6	41.6	41.6
87.5°	10.8	14.1	16.6	16.6	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)