

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: P564229

Luminaire Tested: **SQ4-PR1-0U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564229
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

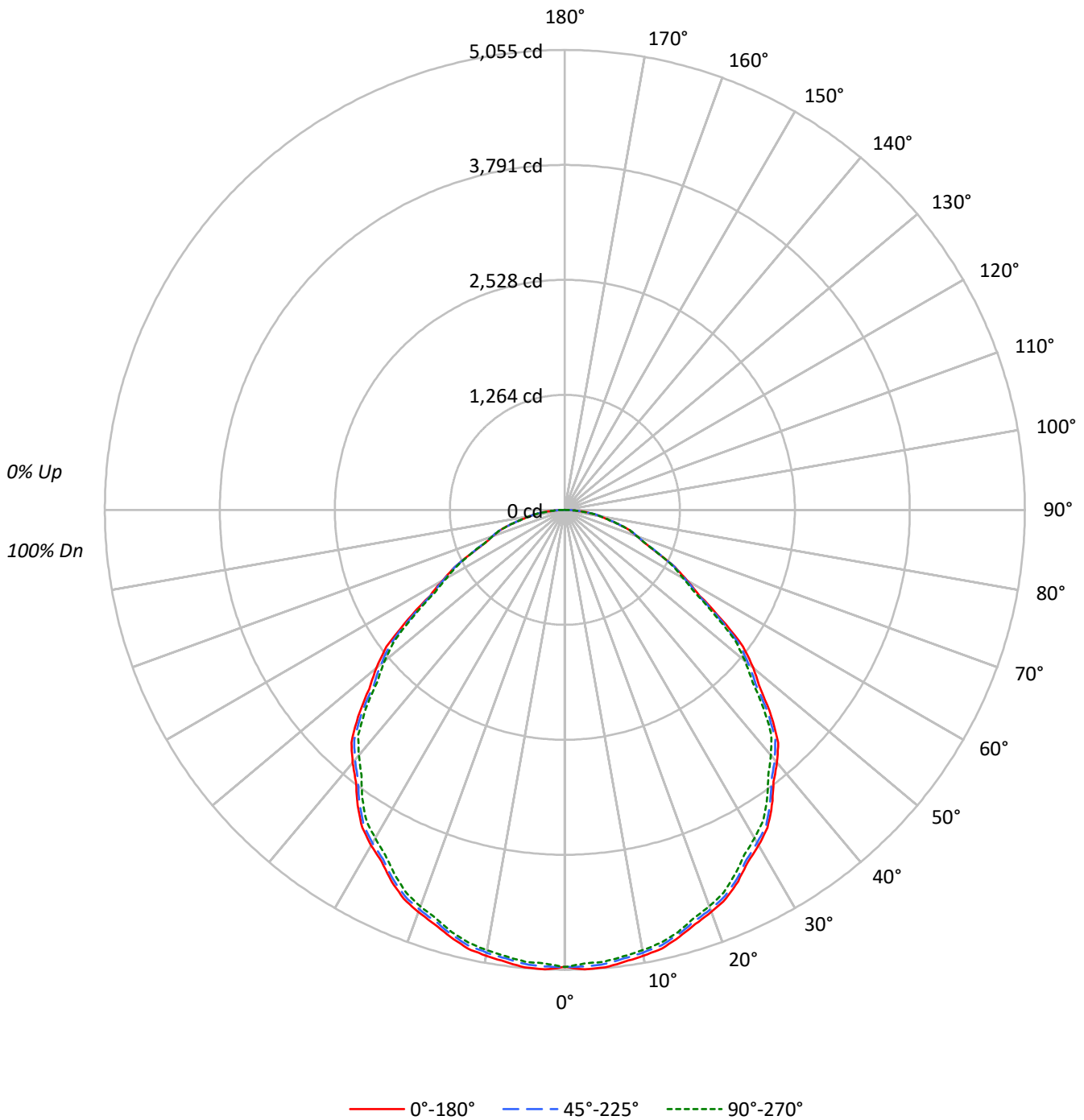
Lumens per Lamp: N/A
Luminaire Lumens: 12559.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15352
15°	15472	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15121	15014	14798
35°	14898	14768	14557
40°	14558	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8187
70°	7549	7587	7587
75°	7251	7251	7302
80°	6820	6898	6820
85°	5498	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	3.8
10°-20°	1359.3	10.8
20°-30°	2050.3	16.3
30°-40°	2442.9	19.5
40°-50°	2408.5	19.2
50°-60°	1840.7	14.7
60°-70°	1139.1	9.1
70°-80°	647.0	5.2
80°-90°	196.8	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°	3884.7	30.9
0°-40°	6327.6	50.4
0°-60°	10576.7	84.2
0°-90°	12559.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12559.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5024	5024	5024	5024	5024	
5°	5050	4995	5011	4994	4985	479
15°	4860	4809	4829	4812	4803	1371
25°	4505	4450	4474	4427	4423	2073
35°	3968	3922	3934	3882	3877	2477
45°	3211	3169	3155	3098	3090	2460
55°	2103	2069	2056	2021	2012	1884
65°	1129	1121	1134	1125	1125	1144
75°	610	610	610	614	614	644
85°	156	164	173	173	173	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5024.1	5024.1	5024.1	5024.1	5024.1
2.5°	5055.2	5011.2	5024.1	5013.1	4989.4
5°	5050.0	4995.0	5011.1	4993.6	4985.1
7.5°	5011.1	4956.9	4973.0	4955.6	4950.5
10°	4976.5	4925.7	4941.8	4924.3	4915.9
12.5°	4938.4	4884.2	4903.8	4882.8	4874.3
15°	4859.6	4808.8	4829.3	4811.8	4803.4
17.5°	4773.1	4718.9	4739.3	4719.2	4708.2
20°	4703.8	4653.1	4673.5	4643.2	4638.9
22.5°	4627.7	4576.9	4597.4	4556.7	4555.8
25°	4504.8	4449.8	4474.5	4426.8	4422.6
27.5°	4358.5	4307.7	4328.2	4279.6	4274.6
30°	4258.1	4207.3	4227.8	4175.7	4167.2
32.5°	4143.9	4096.5	4113.6	4061.5	4056.5
35°	3968.2	3921.6	3933.6	3881.5	3877.3
37.5°	3768.3	3725.9	3732.8	3675.6	3671.3
40°	3626.3	3584.0	3587.4	3526.7	3522.5
42.5°	3470.5	3428.2	3424.7	3364.0	3359.8
45°	3210.9	3168.6	3154.6	3098.2	3089.7
47.5°	2914.9	2872.6	2846.5	2800.5	2794.6
50°	2700.3	2658.0	2635.4	2596.1	2583.4
52.5°	2468.3	2426.0	2406.9	2371.1	2358.4
55°	2103.1	2069.2	2055.5	2020.7	2012.2
57.5°	1756.0	1733.2	1729.2	1695.4	1692.0
60°	1544.9	1532.2	1531.9	1501.6	1501.6
62.5°	1364.8	1355.5	1362.3	1342.3	1338.9
65°	1129.4	1121.0	1133.8	1125.1	1125.1
67.5°	943.4	943.4	951.2	947.7	947.7
70°	839.5	839.5	843.8	843.8	843.8
72.5°	746.0	742.7	753.8	753.7	750.4
75°	610.2	610.2	610.2	614.5	614.5
77.5°	475.1	476.0	479.5	478.5	475.1
80°	385.1	389.4	389.5	385.1	385.1
82.5°	295.1	299.4	299.5	298.5	295.1
85°	155.8	164.2	173.1	173.1	173.1
87.5°	45.0	58.5	69.2	69.2	65.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)