

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: P563941

Luminaire Tested: **SQ4-PR1-025U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563941  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15091.9 lumens  
Efficiency: N/A  
Efficacy: 96.6 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: Semi-Direct

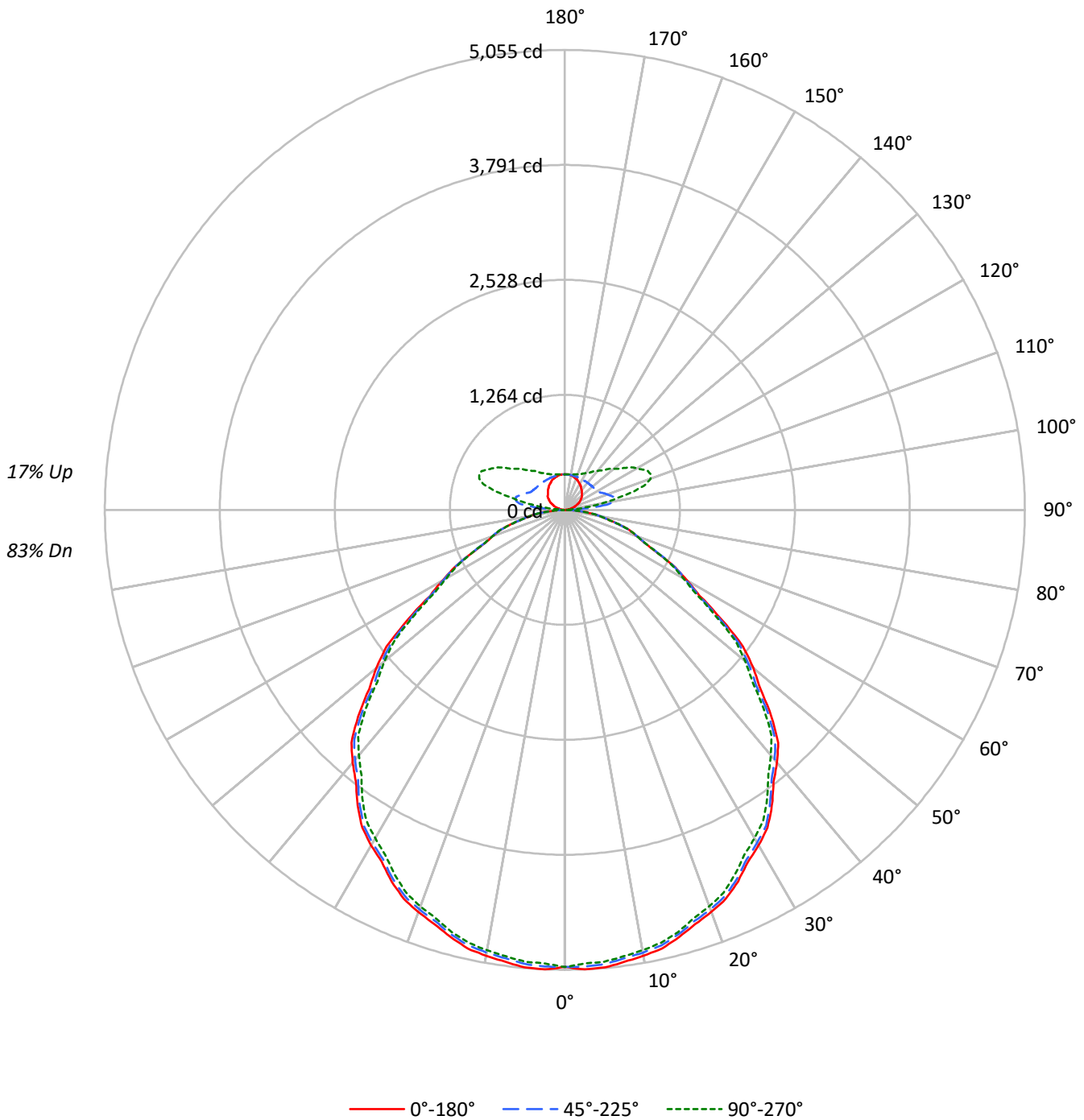
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	40	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	41	36	33	31
8	60	47	39	33	57	46	38	33	43	36	32	40	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

**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	3.1
10°-20°	1359.3	9.0
20°-30°	2050.3	13.6
30°-40°	2442.9	16.2
40°-50°	2408.5	16.0
50°-60°	1840.7	12.2
60°-70°	1139.1	7.5
70°-80°	647.0	4.3
80°-90°	198.9	1.3
90°-100°	190.3	1.3
100°-110°	500.2	3.3
110°-120°	518.7	3.4
120°-130°	416.0	2.8
130°-140°	326.4	2.2
140°-150°	250.5	1.7
150°-160°	180.4	1.2
160°-170°	110.4	0.7
170°-180°	37.3	0.2
0°-30°	3884.7	25.7
0°-40°	6327.6	41.9
0°-60°	10576.7	70.1
0°-90°	12561.7	83.2
90°-120°	1209.1	8.0
90°-150°	2202.1	14.6
90°-180°	2530.0	16.8
0°-180°	15091.9	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	181
90°	2	7	20	10	10	8
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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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°	45.5	60.0	73.2	71.2	67.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)