

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: P564505

Luminaire Tested: **SQ4-PR1-150U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564505  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-125D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

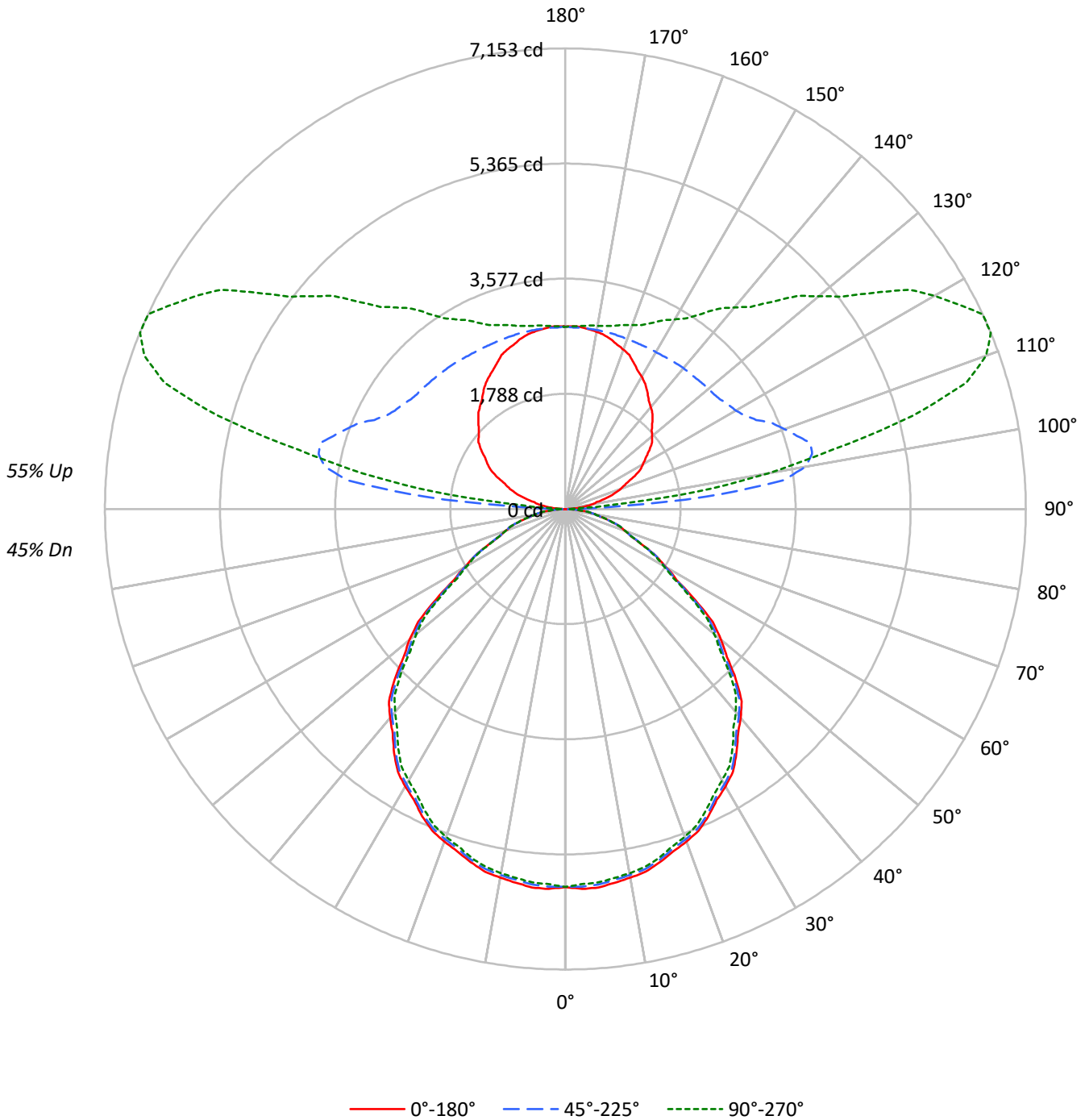
Lumens per Lamp: N/A  
Luminaire Lumens: 32934.3 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 256.3  
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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18053	18053	18053
5°	18216	18075	17981
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11102	11009	10792
65°	9603	9640	9566
70°	8820	8865	8865
75°	8471	8471	8532
80°	7970	8058	7970
85°	6422	7135	7135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.1	1.7
10°-20°	1588.2	4.8
20°-30°	2395.5	7.3
30°-40°	2854.3	8.7
40°-50°	2814.1	8.5
50°-60°	2150.7	6.5
60°-70°	1330.9	4.0
70°-80°	755.9	2.3
80°-90°	235.8	0.7
90°-100°	1315.8	4.0
100°-110°	3557.5	10.8
110°-120°	3740.2	11.4
120°-130°	3038.1	9.2
130°-140°	2383.1	7.2
140°-150°	1829.1	5.6
150°-160°	1315.4	4.0
160°-170°	803.6	2.4
170°-180°	270.9	0.8
0°-30°	4538.9	13.8
0°-40°	7393.2	22.4
0°-60°	12357.9	37.5
0°-90°	14680.6	44.6
90°-120°	8613.5	26.2
90°-150°	15863.8	48.2
90°-180°	18254.0	55.4
0°-180°	32934.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5900	5836	5855	5834	5825	560
15°	5678	5619	5643	5622	5612	1602
25°	5263	5199	5228	5172	5167	2422
35°	4636	4582	4596	4535	4530	2894
45°	3752	3702	3686	3620	3610	2874
55°	2457	2418	2402	2361	2351	2202
65°	1320	1310	1325	1315	1315	1337
75°	713	713	713	718	718	753
85°	182	192	202	202	202	212
90°	6	18	40	43	40	21
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5870.1	5870.1	5870.1	5870.1	5870.1
2.5°	5906.5	5855.1	5870.1	5857.4	5829.7
5°	5900.5	5836.2	5855.0	5834.5	5824.6
7.5°	5855.0	5791.7	5810.5	5790.1	5784.2
10°	5814.5	5755.2	5774.1	5753.6	5743.7
12.5°	5770.0	5706.7	5729.6	5705.1	5695.2
15°	5678.0	5618.7	5642.6	5622.2	5612.3
17.5°	5576.9	5513.6	5537.4	5513.9	5501.0
20°	5496.0	5436.6	5460.6	5425.1	5420.1
22.5°	5407.0	5347.7	5371.6	5324.0	5323.1
25°	5263.4	5199.1	5228.0	5172.3	5167.3
27.5°	5092.5	5033.2	5057.1	5000.3	4994.4
30°	4975.2	4915.9	4939.8	4878.9	4869.0
32.5°	4841.7	4786.3	4806.3	4745.5	4739.6
35°	4636.4	4582.1	4596.0	4535.2	4530.3
37.5°	4402.8	4353.4	4361.4	4294.5	4289.6
40°	4237.0	4187.6	4191.5	4120.6	4115.7
42.5°	4055.0	4005.6	4001.4	3930.5	3925.6
45°	3751.6	3702.2	3685.9	3619.9	3610.1
47.5°	3405.8	3356.3	3325.9	3272.1	3265.2
50°	3155.0	3105.6	3079.2	3033.3	3018.5
52.5°	2884.0	2834.6	2812.2	2770.4	2755.6
55°	2457.3	2417.7	2401.6	2361.0	2351.1
57.5°	2051.8	2025.1	2020.4	1980.9	1976.9
60°	1805.0	1790.2	1789.9	1754.5	1754.5
62.5°	1594.7	1583.8	1591.7	1568.3	1564.4
65°	1319.6	1309.8	1324.7	1314.6	1314.6
67.5°	1102.2	1102.2	1111.3	1107.3	1107.3
70°	980.9	980.9	985.9	985.9	985.9
72.5°	871.7	867.7	880.8	880.7	876.7
75°	712.9	712.9	712.9	718.0	718.0
77.5°	555.2	556.1	560.2	559.1	555.2
80°	450.0	454.9	455.0	450.0	450.0
82.5°	344.8	349.8	349.9	348.8	344.8
85°	182.0	191.9	202.2	202.2	202.2
87.5°	53.8	72.0	88.8	89.3	84.8
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)