

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: P564517

Luminaire Tested: **SQ4-PR1-150U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564517
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

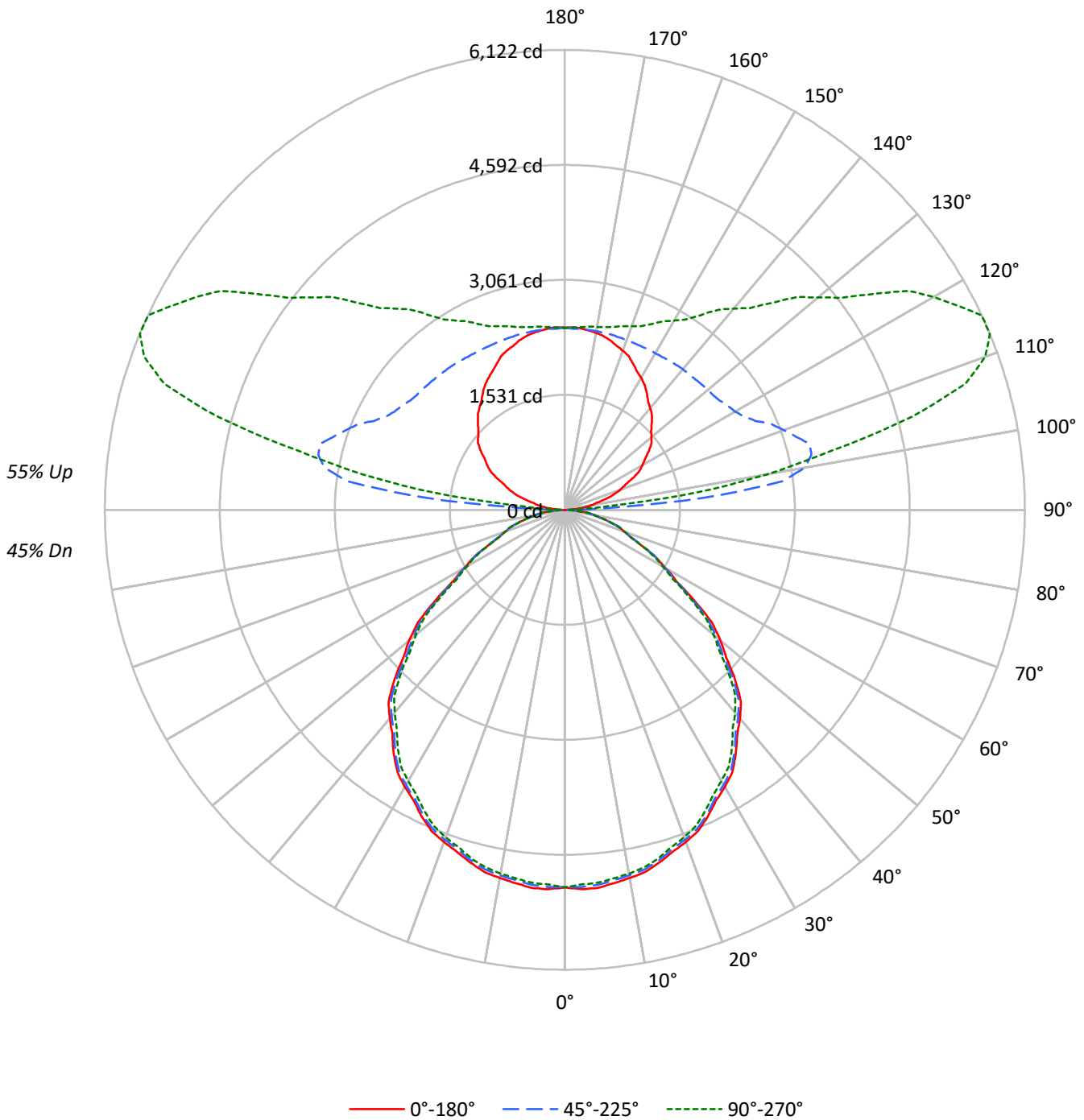
Lumens per Lamp: N/A
Luminaire Lumens: 28187.4 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	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°	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	1.7
10°-20°	1359.3	4.8
20°-30°	2050.3	7.3
30°-40°	2442.9	8.7
40°-50°	2408.5	8.5
50°-60°	1840.7	6.5
60°-70°	1139.1	4.0
70°-80°	647.0	2.3
80°-90°	201.9	0.7
90°-100°	1126.1	4.0
100°-110°	3044.8	10.8
110°-120°	3201.2	11.4
120°-130°	2600.2	9.2
130°-140°	2039.6	7.2
140°-150°	1565.4	5.6
150°-160°	1125.8	4.0
160°-170°	687.8	2.4
170°-180°	231.9	0.8
0°-30°	3884.7	13.8
0°-40°	6327.6	22.4
0°-60°	10576.7	37.5
0°-90°	12564.7	44.6
90°-120°	7372.0	26.2
90°-150°	13577.3	48.2
90°-180°	15623.0	55.4
0°-180°	28187.4	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°	5	15	34	36	34	18
95°	175	613	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1902	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	

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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°	46.0	61.6	76.0	76.5	72.6
90°	5.2	15.4	33.9	36.5	33.9
92.5°	74.1	269.9	532.6	231.2	167.5
95°	174.8	613.4	1872.8	969.2	576.4
97.5°	280.7	703.5	2919.2	2415.8	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.5	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.6
110°	785.1	1040.1	3098.7	5666.6	5954.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.7	5637.7	6121.7
115°	996.4	1218.3	2801.3	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5887.0
120°	1194.6	1398.6	2616.1	4859.4	5667.9
122.5°	1265.6	1465.5	2574.4	4607.1	5421.6
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1454.9	1650.3	2495.6	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.0
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.2	2457.0	3440.2	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.0	3069.2	3357.4
145°	1901.5	2044.3	2423.1	2944.7	3169.1
147.5°	1975.0	2101.5	2411.6	2831.9	3004.3
150°	2029.3	2141.5	2407.5	2770.6	2908.3
152.5°	2079.3	2177.3	2405.4	2713.7	2826.9
155°	2146.6	2230.8	2402.3	2641.6	2728.3
157.5°	2216.5	2275.2	2402.8	2591.4	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2407.0	2534.4	2565.0
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2371.0	2386.8	2413.2	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.1
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)