

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: P564123

Luminaire Tested: **SQ4-PR1-075U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

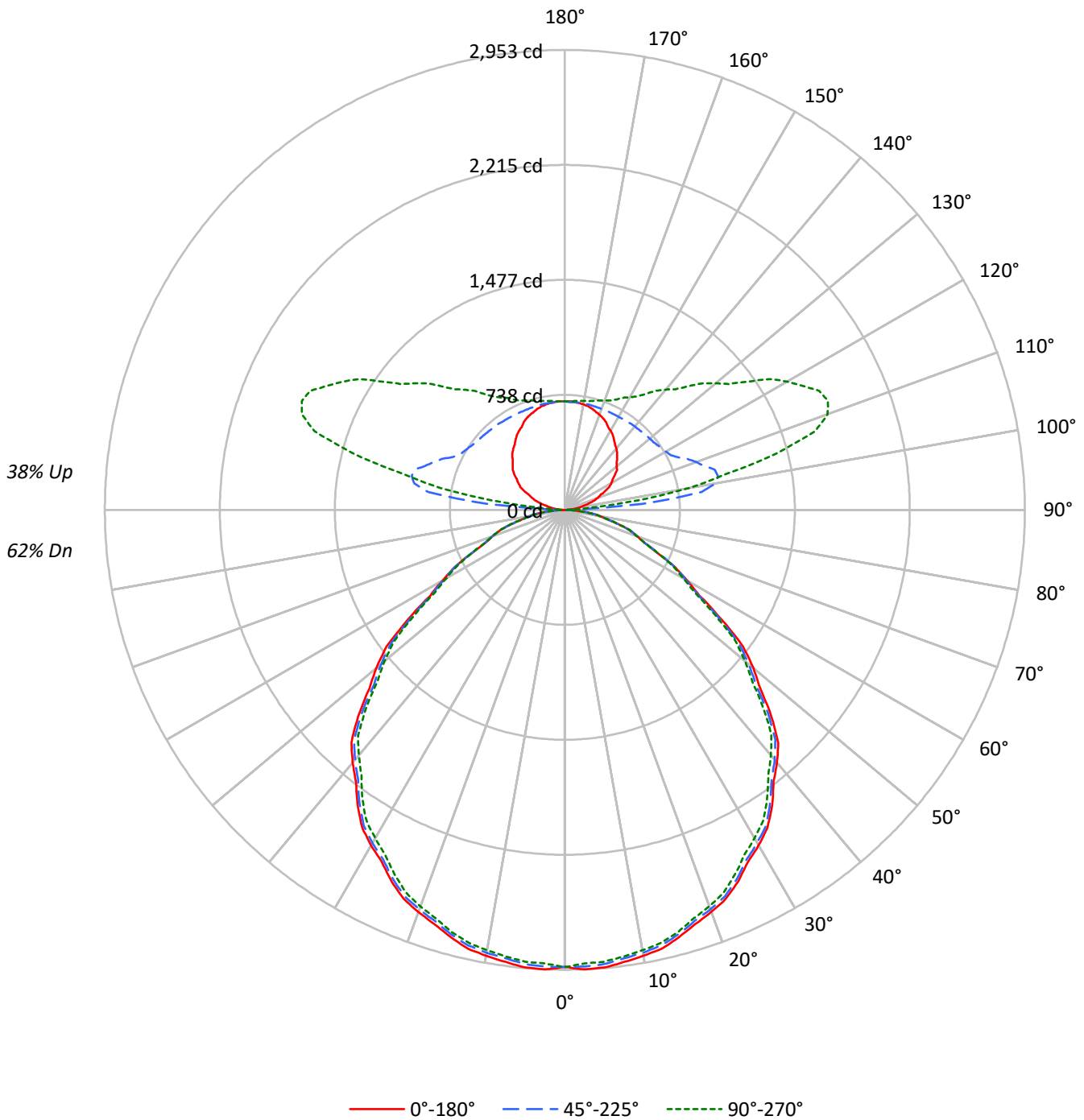
Lumens per Lamp: N/A
Luminaire Lumens: 11875.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17981
10°	18158	18031	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16317	16031	15701
50°	15095	14732	14441
55°	13175	12877	12606
60°	11102	11009	10791
65°	9603	9639	9566
70°	8819	8866	8866
75°	8472	8472	8532
80°	7970	8058	7970
85°	6422	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	2.3
10°-20°	794.1	6.7
20°-30°	1197.8	10.1
30°-40°	1427.1	12.0
40°-50°	1407.0	11.8
50°-60°	1075.3	9.1
60°-70°	665.4	5.6
70°-80°	378.0	3.2
80°-90°	116.7	1.0
90°-100°	328.4	2.8
100°-110°	903.5	7.6
110°-120°	932.6	7.9
120°-130°	747.2	6.3
130°-140°	586.8	4.9
140°-150°	449.7	3.8
150°-160°	323.3	2.7
160°-170°	197.7	1.7
170°-180°	66.6	0.6
0°-30°	2269.4	19.1
0°-40°	3696.6	31.1
0°-60°	6178.9	52.0
0°-90°	7339.1	61.8
90°-120°	2164.4	18.2
90°-150°	3948.2	33.2
90°-180°	4536.0	38.2
0°-180°	11875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2950	2918	2928	2917	2912	280
15°	2839	2809	2821	2811	2806	801
25°	2632	2600	2614	2586	2584	1211
35°	2318	2291	2298	2268	2265	1447
45°	1876	1851	1843	1810	1805	1437
55°	1229	1209	1201	1180	1176	1101
65°	660	655	662	657	657	668
75°	356	356	356	359	359	376
85°	91	96	101	101	101	106
90°	2	6	10	13	13	7
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.1	2935.1	2935.1	2935.1	2935.1
2.5°	2953.3	2927.6	2935.1	2928.7	2914.8
5°	2950.2	2918.1	2927.5	2917.3	2912.3
7.5°	2927.5	2895.8	2905.2	2895.1	2892.1
10°	2907.3	2877.6	2887.0	2876.8	2871.9
12.5°	2885.0	2853.4	2864.8	2852.5	2847.6
15°	2839.0	2809.3	2821.3	2811.1	2806.1
17.5°	2788.4	2756.8	2768.7	2756.9	2750.5
20°	2748.0	2718.3	2730.3	2712.5	2710.1
22.5°	2703.5	2673.8	2685.8	2662.0	2661.5
25°	2631.7	2599.6	2614.0	2586.1	2583.7
27.5°	2546.2	2516.6	2528.6	2500.2	2497.2
30°	2487.6	2457.9	2469.9	2439.5	2434.5
32.5°	2420.9	2393.2	2403.2	2372.8	2369.8
35°	2318.2	2291.0	2298.0	2267.6	2265.1
37.5°	2201.4	2176.7	2180.7	2147.3	2144.8
40°	2118.5	2093.8	2095.8	2060.3	2057.8
42.5°	2027.5	2002.8	2000.7	1965.2	1962.8
45°	1875.8	1851.1	1842.9	1810.0	1805.0
47.5°	1702.9	1678.2	1662.9	1636.1	1632.6
50°	1577.5	1552.8	1539.6	1516.7	1509.2
52.5°	1442.0	1417.3	1406.1	1385.2	1377.8
55°	1228.6	1208.9	1200.8	1180.5	1175.5
57.5°	1025.9	1012.5	1010.2	990.4	988.5
60°	902.5	895.1	894.9	877.2	877.2
62.5°	797.3	791.9	795.8	784.2	782.2
65°	659.8	654.9	662.3	657.3	657.3
67.5°	551.1	551.1	555.7	553.6	553.6
70°	490.4	490.4	493.0	493.0	493.0
72.5°	435.8	433.9	440.4	440.3	438.4
75°	356.5	356.5	356.5	359.0	359.0
77.5°	277.6	278.1	280.1	279.6	277.6
80°	225.0	227.5	227.5	225.0	225.0
82.5°	172.4	174.9	174.9	174.4	172.4
85°	91.0	96.0	101.1	101.1	101.1
87.5°	26.6	35.4	42.5	43.1	41.1
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)