

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: P564097

Luminaire Tested: **SQ4-PR1-075U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564097
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-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

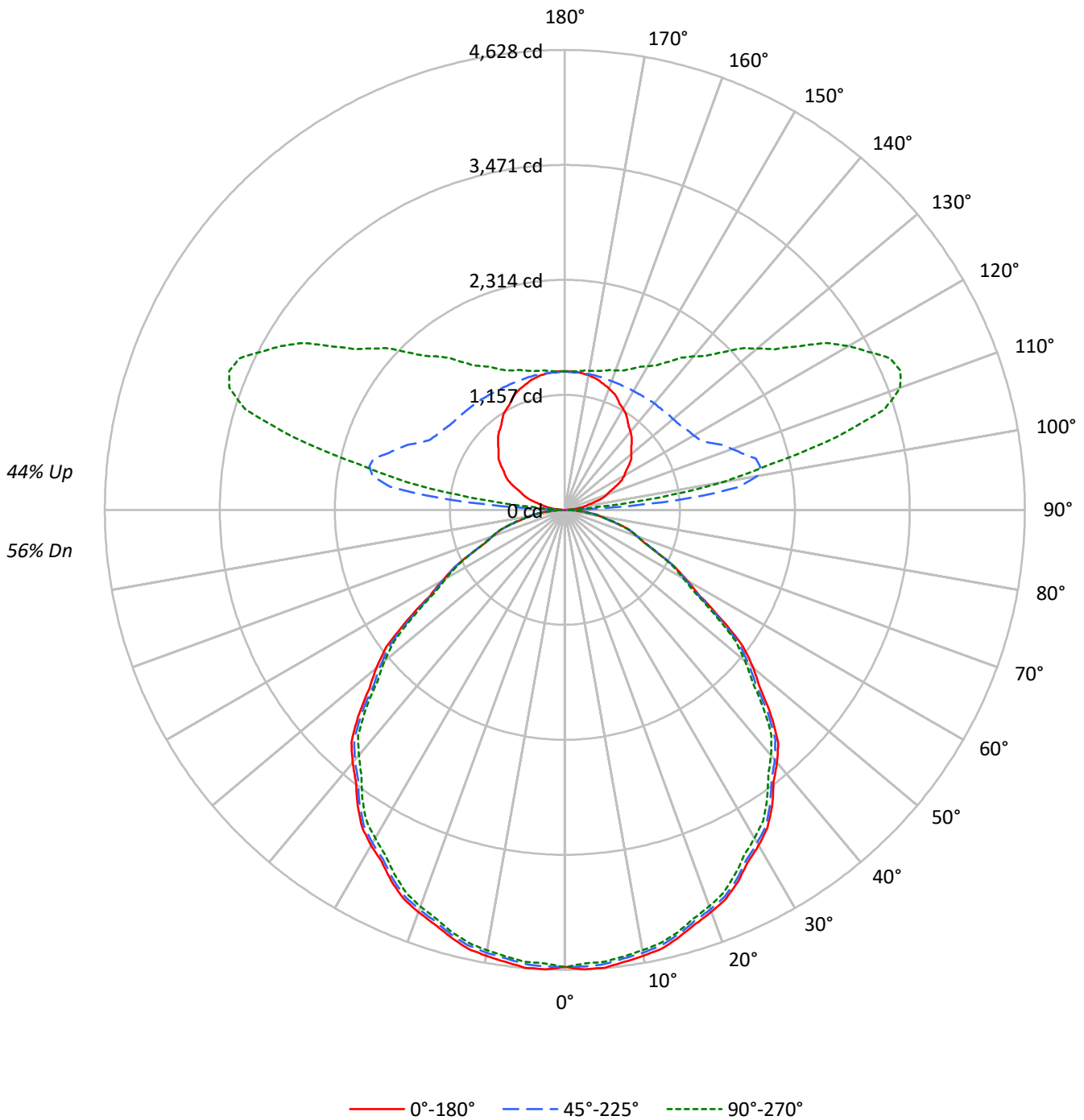
Lumens per Lamp: N/A
Luminaire Lumens: 20574.6 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14091
10°	14229	14130	14056
15°	14166	14078	14002
20°	14095	14004	13900
25°	13996	13902	13740
30°	13845	13746	13549
35°	13640	13521	13328
40°	13329	13186	12948
45°	12786	12562	12304
50°	11829	11544	11317
55°	10325	10091	9878
60°	8700	8627	8456
65°	7525	7554	7496
70°	6911	6947	6947
75°	6638	6638	6685
80°	6245	6316	6245
85°	5032	5593	5593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	2.1
10°-20°	1244.6	6.0
20°-30°	1877.2	9.1
30°-40°	2236.7	10.9
40°-50°	2205.2	10.7
50°-60°	1685.3	8.2
60°-70°	1042.9	5.1
70°-80°	592.3	2.9
80°-90°	183.7	0.9
90°-100°	656.8	3.2
100°-110°	1807.0	8.8
110°-120°	1865.1	9.1
120°-130°	1494.3	7.3
130°-140°	1173.7	5.7
140°-150°	899.4	4.4
150°-160°	646.7	3.1
160°-170°	395.4	1.9
170°-180°	133.3	0.6
0°-30°	3556.7	17.3
0°-40°	5793.4	28.2
0°-60°	9683.9	47.1
0°-90°	11502.9	55.9
90°-120°	4328.8	21.0
90°-150°	7896.3	38.4
90°-180°	9072.0	44.1
0°-180°	20574.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4600	4600	4600	4600	4600	
5°	4624	4573	4588	4572	4564	439
15°	4449	4403	4422	4406	4398	1256
25°	4124	4074	4097	4053	4049	1898
35°	3633	3591	3602	3554	3550	2268
45°	2940	2901	2888	2837	2829	2252
55°	1926	1895	1882	1850	1842	1725
65°	1034	1026	1038	1030	1030	1047
75°	559	559	559	563	563	590
85°	143	150	158	158	158	166
90°	3	12	21	27	27	12
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4599.9	4599.9	4599.9	4599.9	4599.9
2.5°	4628.5	4588.2	4599.9	4589.9	4568.2
5°	4623.7	4573.3	4588.0	4572.0	4564.3
7.5°	4588.0	4538.5	4553.2	4537.2	4532.6
10°	4556.3	4509.9	4524.7	4508.6	4500.9
12.5°	4521.5	4471.9	4489.8	4470.6	4462.8
15°	4449.4	4402.9	4421.6	4405.6	4397.9
17.5°	4370.1	4320.5	4339.2	4320.8	4310.7
20°	4306.7	4260.3	4279.0	4251.2	4247.3
22.5°	4237.0	4190.5	4209.3	4172.0	4171.2
25°	4124.5	4074.1	4096.8	4053.1	4049.2
27.5°	3990.6	3944.1	3962.8	3918.4	3913.7
30°	3898.6	3852.2	3870.9	3823.2	3815.4
32.5°	3794.1	3750.7	3766.3	3718.7	3714.0
35°	3633.2	3590.6	3601.5	3553.9	3550.0
37.5°	3450.1	3411.4	3417.7	3365.3	3361.4
40°	3320.2	3281.5	3284.5	3229.0	3225.1
42.5°	3177.6	3138.8	3135.6	3080.0	3076.1
45°	2939.8	2901.1	2888.3	2836.6	2828.9
47.5°	2668.8	2630.1	2606.2	2564.1	2558.7
50°	2472.3	2433.6	2412.9	2377.0	2365.3
52.5°	2259.9	2221.2	2203.7	2170.9	2159.3
55°	1925.6	1894.6	1882.0	1850.1	1842.3
57.5°	1607.8	1586.9	1583.2	1552.3	1549.2
60°	1414.4	1402.8	1402.6	1374.8	1374.8
62.5°	1249.6	1241.1	1247.3	1229.0	1225.9
65°	1034.1	1026.3	1038.1	1030.1	1030.1
67.5°	863.7	863.7	870.9	867.7	867.7
70°	768.6	768.6	772.6	772.6	772.6
72.5°	683.1	680.0	690.2	690.1	687.0
75°	558.6	558.6	558.6	562.6	562.6
77.5°	435.0	435.8	439.0	438.1	435.0
80°	352.6	356.5	356.6	352.6	352.6
82.5°	270.2	274.1	274.2	273.3	270.2
85°	142.6	150.4	158.5	158.5	158.5
87.5°	41.8	55.9	67.5	68.7	65.6
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)