

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: P564170

Luminaire Tested: **SQ4-PR1-0U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564170
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

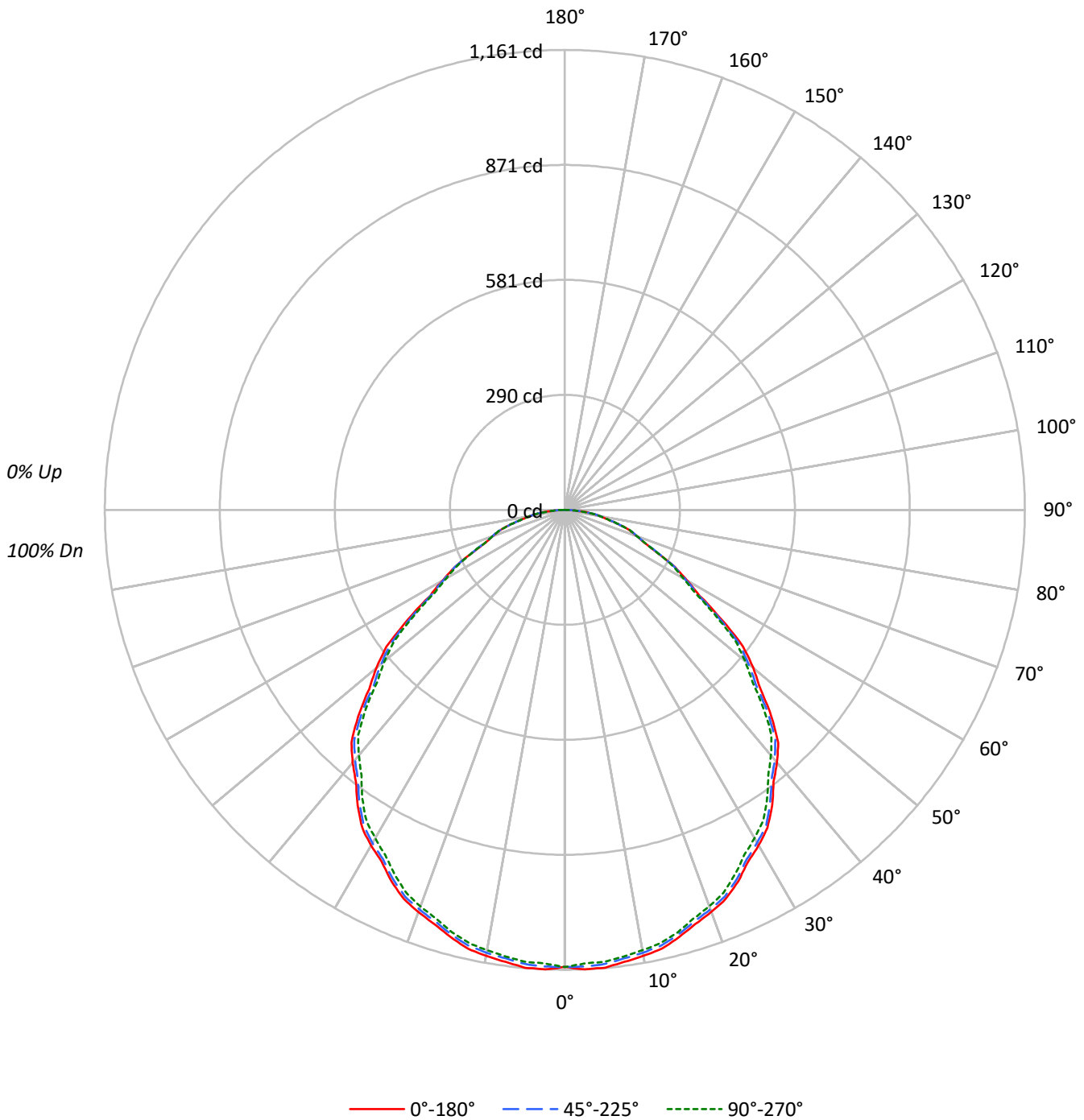
Lumens per Lamp: N/A
Luminaire Lumens: 2884.8 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10604
10°	10709	10634	10578
15°	10662	10596	10538
20°	10608	10540	10461
25°	10533	10463	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10031	9924	9745
45°	9623	9454	9260
50°	8902	8688	8517
55°	7771	7594	7435
60°	6547	6493	6364
65°	5663	5685	5641
70°	5201	5228	5228
75°	4994	4994	5030
80°	4702	4755	4702
85°	3790	4213	4213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.8
10°-20°	312.2	10.8
20°-30°	470.9	16.3
30°-40°	561.1	19.5
40°-50°	553.2	19.2
50°-60°	422.8	14.7
60°-70°	261.6	9.1
70°-80°	148.6	5.2
80°-90°	45.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	892.3	30.9
0°-40°	1453.4	50.4
0°-60°	2429.4	84.2
0°-90°	2884.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1160	1147	1151	1147	1145	110
15°	1116	1105	1109	1105	1103	315
25°	1035	1022	1028	1017	1016	476
35°	912	901	904	892	891	569
45°	738	728	725	712	710	565
55°	483	475	472	464	462	433
65°	259	258	260	258	258	263
75°	140	140	140	141	141	148
85°	36	38	40	40	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.0	1154.0	1154.0	1154.0	1154.0
2.5°	1161.1	1151.0	1154.0	1151.5	1146.0
5°	1160.0	1147.3	1151.0	1147.0	1145.0
7.5°	1151.0	1138.6	1142.3	1138.3	1137.1
10°	1143.1	1131.4	1135.1	1131.1	1129.1
12.5°	1134.3	1121.9	1126.4	1121.5	1119.6
15°	1116.2	1104.6	1109.3	1105.2	1103.3
17.5°	1096.3	1083.9	1088.6	1084.0	1081.4
20°	1080.4	1068.8	1073.5	1066.5	1065.5
22.5°	1062.9	1051.3	1056.0	1046.6	1046.4
25°	1034.7	1022.1	1027.8	1016.8	1015.8
27.5°	1001.1	989.5	994.2	983.0	981.8
30°	978.1	966.4	971.1	959.1	957.2
32.5°	951.8	940.9	944.9	932.9	931.7
35°	911.5	900.8	903.5	891.6	890.6
37.5°	865.5	855.8	857.4	844.2	843.3
40°	832.9	823.2	824.0	810.1	809.1
42.5°	797.2	787.4	786.6	772.7	771.7
45°	737.5	727.8	724.6	711.6	709.7
47.5°	669.5	659.8	653.8	643.3	641.9
50°	620.2	610.5	605.3	596.3	593.4
52.5°	567.0	557.2	552.8	544.6	541.7
55°	483.1	475.3	472.1	464.1	462.2
57.5°	403.3	398.1	397.2	389.4	388.6
60°	354.8	351.9	351.9	344.9	344.9
62.5°	313.5	311.4	312.9	308.3	307.5
65°	259.4	257.5	260.4	258.4	258.4
67.5°	216.7	216.7	218.5	217.7	217.7
70°	192.8	192.8	193.8	193.8	193.8
72.5°	171.4	170.6	173.1	173.1	172.4
75°	140.1	140.1	140.1	141.1	141.1
77.5°	109.1	109.3	110.1	109.9	109.1
80°	88.5	89.4	89.5	88.5	88.5
82.5°	67.8	68.8	68.8	68.6	67.8
85°	35.8	37.7	39.8	39.8	39.8
87.5°	10.3	13.4	15.9	15.9	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)