

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: P564166

Luminaire Tested: **SQ4-PR1-0U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564166
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

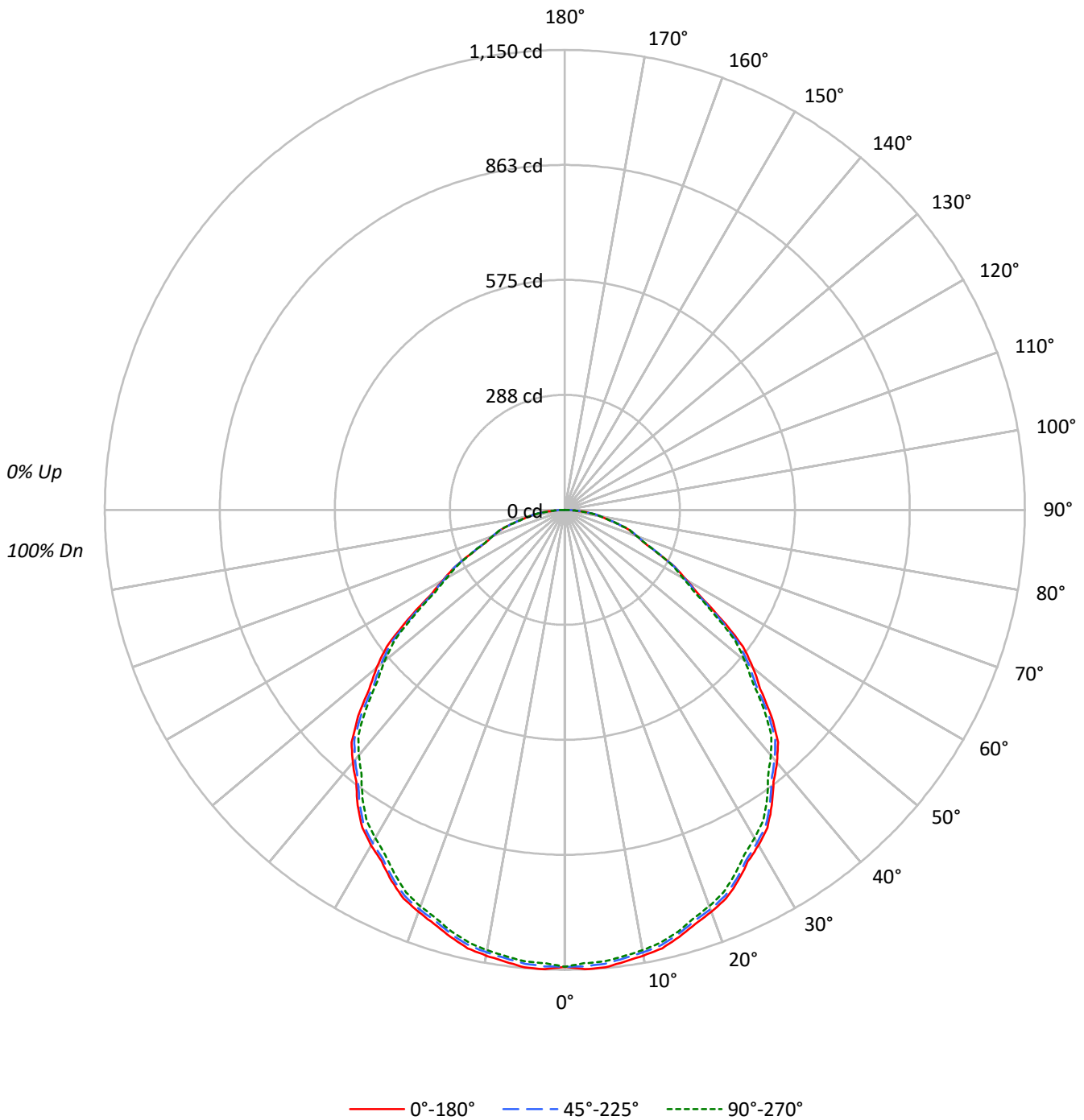
Lumens per Lamp: N/A
Luminaire Lumens: 2856.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10553	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10503	10435	10357
25°	10428	10358	10238
30°	10316	10242	10095
35°	10164	10075	9931
40°	9931	9825	9647
45°	9528	9361	9167
50°	8814	8602	8433
55°	7694	7518	7361
60°	6482	6429	6301
65°	5606	5628	5587
70°	5150	5177	5177
75°	4948	4948	4980
80°	4654	4707	4654
85°	3747	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.8
10°-20°	309.1	10.8
20°-30°	466.2	16.3
30°-40°	555.5	19.5
40°-50°	547.7	19.2
50°-60°	418.6	14.7
60°-70°	259.0	9.1
70°-80°	147.1	5.2
80°-90°	44.8	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°	883.4	30.9
0°-40°	1438.9	50.4
0°-60°	2405.2	84.2
0°-90°	2856.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1148	1136	1140	1136	1134	109
15°	1105	1094	1098	1094	1092	312
25°	1024	1012	1018	1007	1006	471
35°	902	892	894	883	882	563
45°	730	721	717	704	703	559
55°	478	471	467	460	458	429
65°	257	255	258	256	256	260
75°	139	139	139	140	140	147
85°	35	37	39	39	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.6	1139.6	1142.5	1140.0	1134.6
5°	1148.4	1135.9	1139.5	1135.6	1133.6
7.5°	1139.5	1127.2	1130.9	1126.9	1125.8
10°	1131.7	1120.1	1123.8	1119.8	1117.9
12.5°	1123.0	1110.7	1115.1	1110.4	1108.4
15°	1105.1	1093.6	1098.2	1094.2	1092.3
17.5°	1085.4	1073.1	1077.7	1073.2	1070.7
20°	1069.7	1058.1	1062.8	1055.9	1054.9
22.5°	1052.4	1040.8	1045.5	1036.2	1036.0
25°	1024.4	1011.9	1017.5	1006.7	1005.7
27.5°	991.1	979.6	984.3	973.2	972.1
30°	968.3	956.8	961.4	949.6	947.6
32.5°	942.3	931.6	935.4	923.6	922.5
35°	902.4	891.8	894.5	882.7	881.7
37.5°	856.9	847.3	848.9	835.8	834.9
40°	824.6	815.0	815.8	802.0	801.0
42.5°	789.2	779.6	778.8	765.0	764.0
45°	730.2	720.6	717.4	704.5	702.6
47.5°	662.9	653.2	647.3	636.9	635.5
50°	614.1	604.4	599.3	590.4	587.5
52.5°	561.3	551.7	547.3	539.2	536.3
55°	478.3	470.6	467.4	459.5	457.6
57.5°	399.3	394.1	393.2	385.5	384.8
60°	351.3	348.4	348.4	341.5	341.5
62.5°	310.4	308.3	309.8	305.2	304.5
65°	256.8	254.9	257.8	255.9	255.9
67.5°	214.5	214.5	216.3	215.5	215.5
70°	190.9	190.9	191.9	191.9	191.9
72.5°	169.7	168.9	171.4	171.4	170.6
75°	138.8	138.8	138.8	139.7	139.7
77.5°	108.0	108.2	109.0	108.8	108.0
80°	87.6	88.5	88.6	87.6	87.6
82.5°	67.1	68.1	68.1	67.9	67.1
85°	35.4	37.4	39.4	39.4	39.4
87.5°	10.2	13.3	15.7	15.7	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)