

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: P561946

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561946
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-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

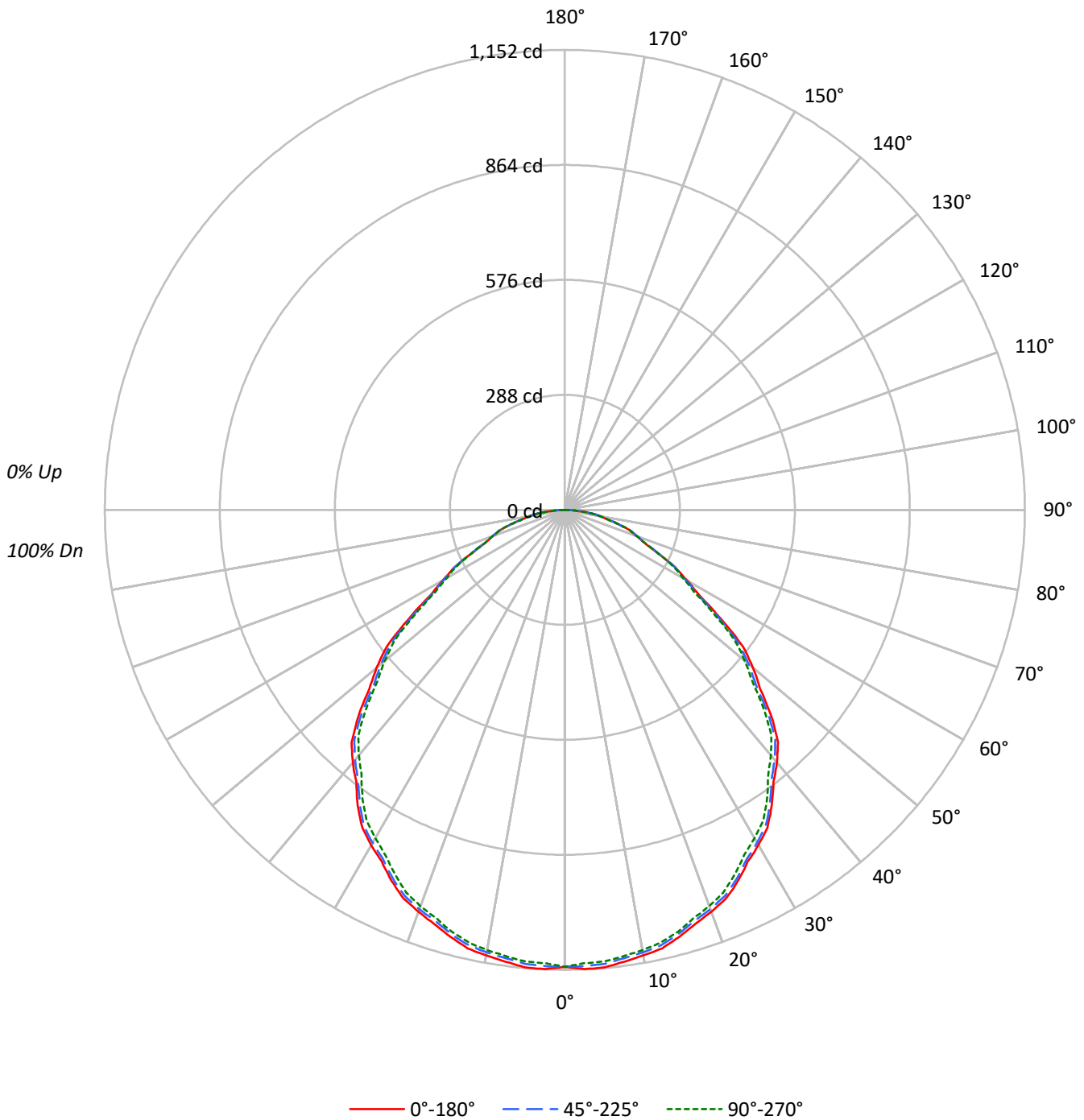
Lumens per Lamp: N/A
Luminaire Lumens: 2860.8 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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				
RC	80					70					50					30				
RW	70	50	30	10	70	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°	10558	10558	10558
5°	10653	10571	10516
10°	10619	10546	10490
15°	10573	10507	10450
20°	10519	10452	10375
25°	10446	10375	10255
30°	10333	10259	10112
35°	10181	10092	9948
40°	9948	9841	9664
45°	9543	9376	9183
50°	8829	8616	8447
55°	7705	7531	7372
60°	6493	6438	6311
65°	5617	5639	5595
70°	5158	5185	5185
75°	4955	4955	4991
80°	4660	4713	4660
85°	3758	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.8
10°-20°	309.6	10.8
20°-30°	467.0	16.3
30°-40°	556.4	19.5
40°-50°	548.6	19.2
50°-60°	419.3	14.7
60°-70°	259.5	9.1
70°-80°	147.4	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°	884.9	30.9
0°-40°	1441.3	50.4
0°-60°	2409.2	84.2
0°-90°	2860.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1150	1138	1141	1137	1136	109
15°	1107	1095	1100	1096	1094	312
25°	1026	1014	1019	1008	1007	472
35°	904	893	896	884	883	564
45°	731	722	719	706	704	560
55°	479	471	468	460	458	429
65°	257	255	258	256	256	261
75°	139	139	139	140	140	147
85°	36	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°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1151.5	1141.5	1144.4	1141.9	1136.5
5°	1150.3	1137.8	1141.4	1137.4	1135.5
7.5°	1141.4	1129.1	1132.8	1128.8	1127.6
10°	1133.5	1122.0	1125.7	1121.7	1119.7
12.5°	1124.9	1112.5	1117.0	1112.2	1110.3
15°	1106.9	1095.4	1100.0	1096.0	1094.1
17.5°	1087.2	1074.9	1079.5	1074.9	1072.4
20°	1071.4	1059.9	1064.5	1057.6	1056.7
22.5°	1054.1	1042.5	1047.2	1037.9	1037.7
25°	1026.1	1013.6	1019.2	1008.3	1007.4
27.5°	992.8	981.2	985.9	974.8	973.7
30°	969.9	958.4	963.0	951.1	949.2
32.5°	943.9	933.1	937.0	925.1	924.0
35°	903.9	893.3	896.0	884.1	883.2
37.5°	858.3	848.7	850.3	837.2	836.3
40°	826.0	816.4	817.1	803.3	802.4
42.5°	790.5	780.9	780.1	766.3	765.3
45°	731.4	721.7	718.6	705.7	703.8
47.5°	664.0	654.3	648.4	637.9	636.6
50°	615.1	605.4	600.3	591.3	588.5
52.5°	562.2	552.6	548.2	540.1	537.2
55°	479.0	471.3	468.2	460.3	458.3
57.5°	400.0	394.8	393.9	386.2	385.4
60°	351.9	349.0	348.9	342.0	342.0
62.5°	310.9	308.8	310.3	305.7	305.0
65°	257.3	255.3	258.3	256.3	256.3
67.5°	214.9	214.9	216.7	215.9	215.9
70°	191.2	191.2	192.2	192.2	192.2
72.5°	169.9	169.2	171.7	171.7	170.9
75°	139.0	139.0	139.0	140.0	140.0
77.5°	108.2	108.4	109.2	109.0	108.2
80°	87.7	88.7	88.7	87.7	87.7
82.5°	67.2	68.2	68.2	68.0	67.2
85°	35.5	37.4	39.4	39.4	39.4
87.5°	10.3	13.3	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)