

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: P564750

Luminaire Tested: **SQ4-PW1-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564750
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

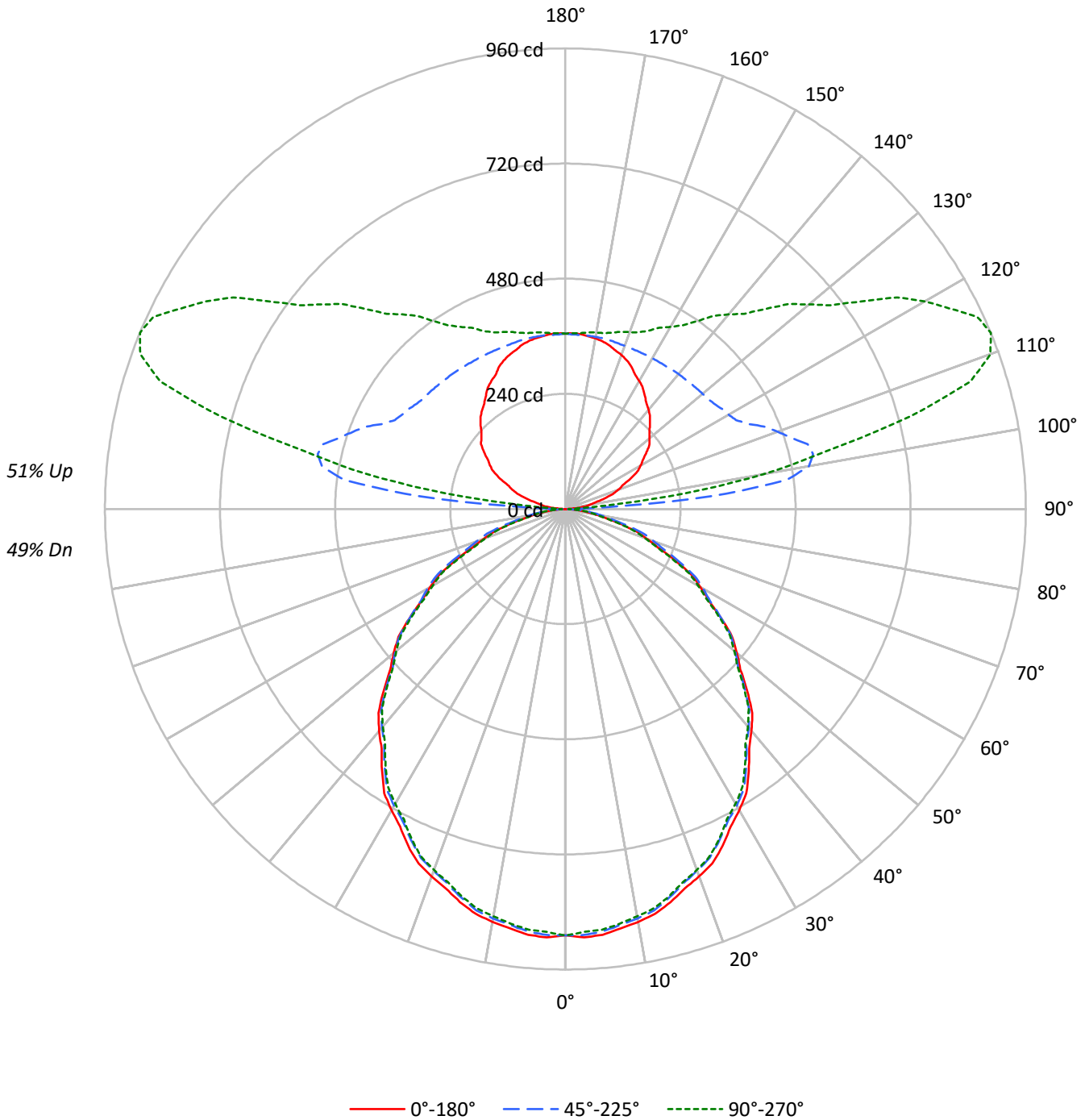
Lumens per Lamp: N/A
Luminaire Lumens: 4644.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8122	8078
15°	8101	8011	7980
20°	8004	7880	7865
25°	7892	7748	7725
30°	7725	7609	7559
35°	7506	7400	7356
40°	7271	7159	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5997	6111	5896
65°	5488	5761	5351
70°	4837	5303	4710
75°	4132	4745	4021
80°	3204	3995	3246
85°	2075	3070	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.8
10°-20°	236.3	5.1
20°-30°	350.5	7.5
30°-40°	410.1	8.8
40°-50°	408.3	8.8
50°-60°	352.6	7.6
60°-70°	253.8	5.5
70°-80°	133.1	2.9
80°-90°	33.9	0.7
90°-100°	172.5	3.7
100°-110°	474.5	10.2
110°-120°	489.8	10.5
120°-130°	392.4	8.4
130°-140°	308.2	6.6
140°-150°	236.2	5.1
150°-160°	169.8	3.7
160°-170°	103.8	2.2
170°-180°	35.0	0.8
0°-30°	670.5	14.4
0°-40°	1080.6	23.3
0°-60°	1841.4	39.6
0°-90°	2262.2	48.7
90°-120°	1136.8	24.5
90°-150°	2073.6	44.6
90°-180°	2382.0	51.3
0°-180°	4644.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	884	882	880	84
15°	848	837	839	837	836	239
25°	775	762	761	756	759	356
35°	666	657	657	651	653	417
45°	536	531	529	527	526	413
55°	397	396	397	392	391	354
65°	251	259	264	254	245	249
75°	116	127	133	124	113	124
85°	20	26	29	27	26	26
90°	1	3	5	7	7	2
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.8	888.8	888.8	888.8	888.8
2.5°	893.8	886.4	888.8	886.8	882.5
5°	891.1	881.2	884.1	881.7	880.2
7.5°	882.1	872.9	875.0	872.5	871.6
10°	873.9	864.7	866.9	863.7	862.2
12.5°	864.5	854.7	856.8	853.7	852.8
15°	848.1	837.3	838.7	837.1	835.5
17.5°	829.0	818.1	818.3	815.8	815.5
20°	815.2	803.7	802.6	799.6	801.1
22.5°	800.1	788.0	787.0	782.7	784.8
25°	775.2	762.2	761.1	756.5	758.8
27.5°	746.4	733.6	733.6	727.1	729.5
30°	725.1	712.9	714.2	706.4	709.5
32.5°	702.6	691.5	692.2	684.5	687.5
35°	666.4	657.2	657.0	650.8	653.1
37.5°	629.4	621.3	620.0	616.4	617.1
40°	603.7	596.9	594.4	592.0	592.0
42.5°	576.8	570.5	568.0	566.3	565.7
45°	535.6	531.0	528.6	527.0	526.2
47.5°	494.9	490.6	488.5	487.4	486.6
50°	466.7	463.6	462.8	460.4	459.7
52.5°	438.5	436.7	435.9	432.9	432.1
55°	397.0	396.3	397.0	391.5	390.8
57.5°	353.8	355.0	357.6	350.1	348.3
60°	325.0	328.0	331.2	322.6	319.5
62.5°	295.5	300.4	304.9	295.0	290.7
65°	251.4	259.0	263.9	253.5	245.1
67.5°	208.8	218.3	224.1	212.9	203.4
70°	179.3	190.0	196.6	185.3	174.6
72.5°	153.6	165.6	170.9	160.3	149.6
75°	115.9	126.6	133.1	124.2	112.8
77.5°	82.2	92.3	97.7	90.0	80.5
80°	60.3	71.0	75.2	68.7	61.1
82.5°	42.8	51.6	54.5	50.6	45.4
85°	19.6	25.7	29.0	27.4	25.8
87.5°	5.2	9.9	13.0	13.3	13.9
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

TEST NUMBER: P564750

CATALOG NUMBER: SQ4-PW1-075U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)