

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: P564121

Luminaire Tested: **SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564121
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-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

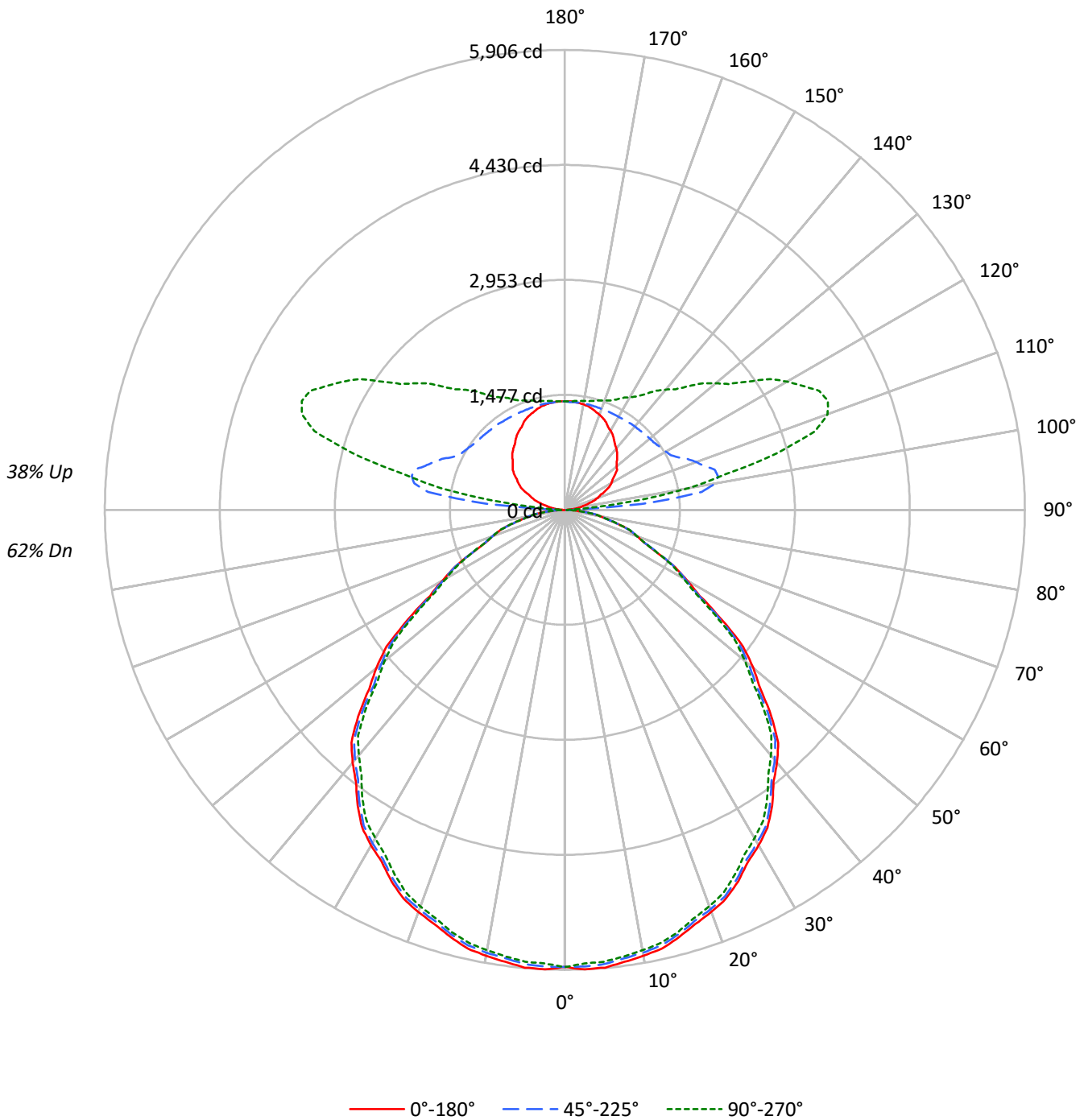
Lumens per Lamp: N/A
Luminaire Lumens: 23749.9 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.8
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



TEST NUMBER: P564121
CATALOG NUMBER: SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564121

CATALOG NUMBER: SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18216	18075	17981
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11102	11009	10792
65°	9603	9640	9566
70°	8820	8865	8865
75°	8471	8471	8532
80°	7970	8058	7970
85°	6422	7135	7135



TEST NUMBER: P564121

CATALOG NUMBER: SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	2.3
10°-20°	1588.2	6.7
20°-30°	2395.5	10.1
30°-40°	2854.3	12.0
40°-50°	2814.1	11.8
50°-60°	2150.7	9.1
60°-70°	1330.9	5.6
70°-80°	755.9	3.2
80°-90°	233.5	1.0
90°-100°	656.8	2.8
100°-110°	1807.0	7.6
110°-120°	1865.1	7.9
120°-130°	1494.3	6.3
130°-140°	1173.7	4.9
140°-150°	899.4	3.8
150°-160°	646.7	2.7
160°-170°	395.4	1.7
170°-180°	133.3	0.6
0°-30°	4538.9	19.1
0°-40°	7393.2	31.1
0°-60°	12357.9	52.0
0°-90°	14678.2	61.8
90°-120°	4328.8	18.2
90°-150°	7896.3	33.2
90°-180°	9072.0	38.2
0°-180°	23749.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5900	5836	5855	5834	5825	560
15°	5678	5619	5643	5622	5612	1602
25°	5263	5199	5228	5172	5167	2422
35°	4636	4582	4596	4535	4530	2894
45°	3752	3702	3686	3620	3610	2874
55°	2457	2418	2402	2361	2351	2202
65°	1320	1310	1325	1315	1315	1337
75°	713	713	713	718	718	753
85°	182	192	202	202	202	212
90°	3	12	21	27	27	14
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	

TEST NUMBER: P564121

CATALOG NUMBER: SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5870.1	5870.1	5870.1	5870.1	5870.1
2.5°	5906.5	5855.1	5870.1	5857.4	5829.7
5°	5900.5	5836.2	5855.0	5834.5	5824.6
7.5°	5855.0	5791.7	5810.5	5790.1	5784.2
10°	5814.5	5755.2	5774.1	5753.6	5743.7
12.5°	5770.0	5706.7	5729.6	5705.1	5695.2
15°	5678.0	5618.7	5642.6	5622.2	5612.3
17.5°	5576.9	5513.6	5537.4	5513.9	5501.0
20°	5496.0	5436.6	5460.6	5425.1	5420.1
22.5°	5407.0	5347.7	5371.6	5324.0	5323.1
25°	5263.4	5199.1	5228.0	5172.3	5167.3
27.5°	5092.5	5033.2	5057.1	5000.3	4994.4
30°	4975.2	4915.9	4939.8	4878.9	4869.0
32.5°	4841.7	4786.3	4806.3	4745.5	4739.6
35°	4636.4	4582.1	4596.0	4535.2	4530.3
37.5°	4402.8	4353.4	4361.4	4294.5	4289.6
40°	4237.0	4187.6	4191.5	4120.6	4115.7
42.5°	4055.0	4005.6	4001.4	3930.5	3925.6
45°	3751.6	3702.2	3685.9	3619.9	3610.1
47.5°	3405.8	3356.3	3325.9	3272.1	3265.2
50°	3155.0	3105.6	3079.2	3033.3	3018.5
52.5°	2884.0	2834.6	2812.2	2770.4	2755.6
55°	2457.3	2417.7	2401.6	2361.0	2351.1
57.5°	2051.8	2025.1	2020.4	1980.9	1976.9
60°	1805.0	1790.2	1789.9	1754.5	1754.5
62.5°	1594.7	1583.8	1591.7	1568.3	1564.4
65°	1319.6	1309.8	1324.7	1314.6	1314.6
67.5°	1102.2	1102.2	1111.3	1107.3	1107.3
70°	980.9	980.9	985.9	985.9	985.9
72.5°	871.7	867.7	880.8	880.7	876.7
75°	712.9	712.9	712.9	718.0	718.0
77.5°	555.2	556.1	560.2	559.1	555.2
80°	450.0	454.9	455.0	450.0	450.0
82.5°	344.8	349.8	349.9	348.8	344.8
85°	182.0	191.9	202.2	202.2	202.2
87.5°	53.2	70.7	85.0	86.1	82.2
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

TEST NUMBER: P564121

CATALOG NUMBER: SQ4-PR1-075U-125D-840-1D-UNV-STD-W-12

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)