

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P234616

Luminaire Tested: **CTA-F-5050-40L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-40L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

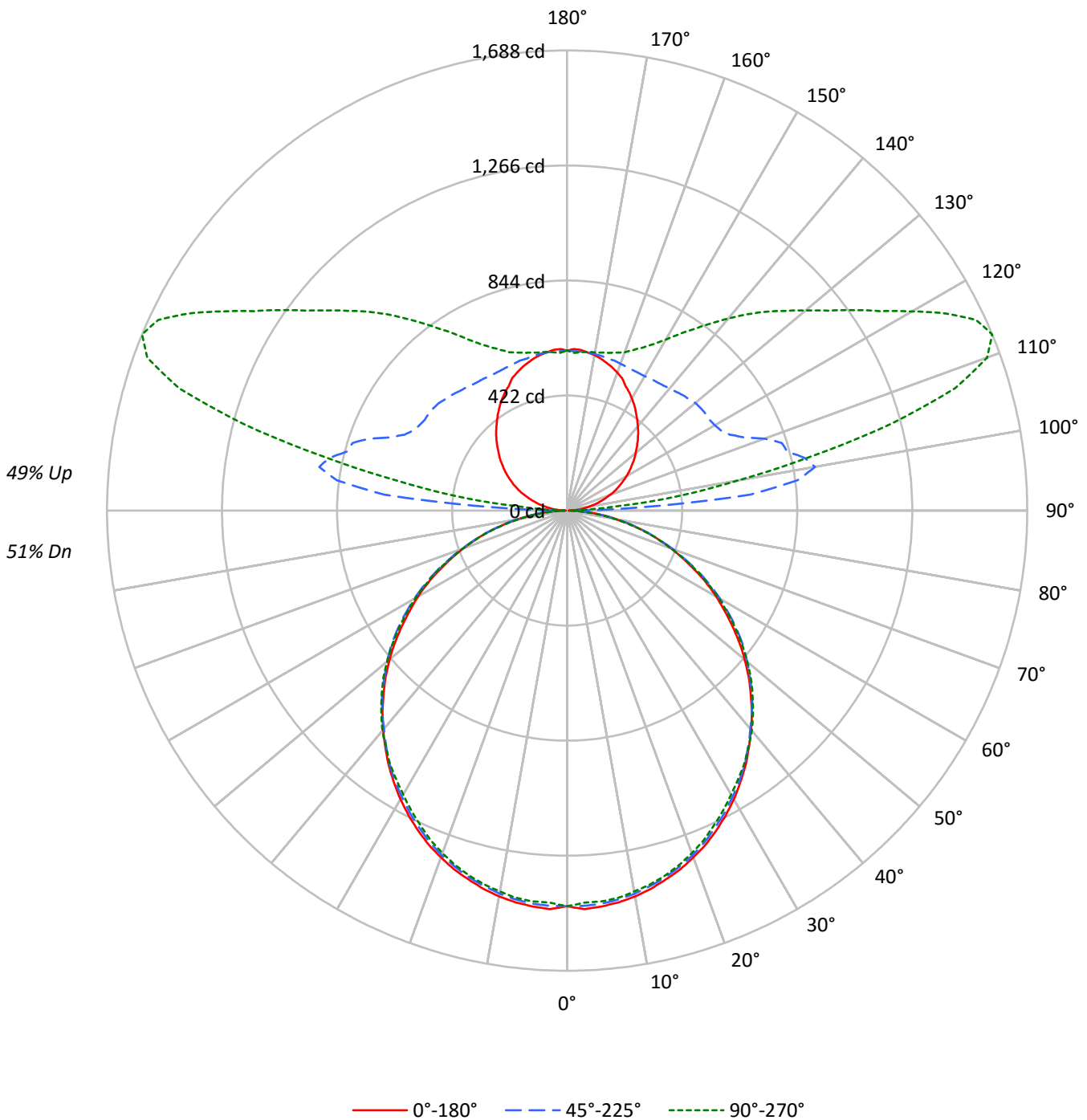
Lumens per Lamp: N/A
Luminaire Lumens: 8100.9 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.3
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: 25 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	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4686	4686	4686
5°	4724	4691	4665
10°	4712	4678	4652
15°	4681	4654	4634
20°	4651	4623	4595
25°	4612	4575	4539
30°	4560	4522	4484
35°	4500	4475	4468
40°	4425	4408	4442
45°	4347	4384	4394
50°	4270	4332	4332
55°	4166	4280	4246
60°	4081	4186	4147
65°	3956	4065	4018
70°	3830	3888	3830
75°	3688	3713	3662
80°	3412	3449	3336
85°	3019	3019	2719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.7
10°-20°	392.4	4.8
20°-30°	590.7	7.3
30°-40°	709.0	8.8
40°-50°	737.3	9.1
50°-60°	670.9	8.3
60°-70°	520.2	6.4
70°-80°	313.7	3.9
80°-90°	94.1	1.2
90°-100°	315.2	3.9
100°-110°	804.2	9.9
110°-120°	813.1	10.0
120°-130°	636.0	7.9
130°-140°	502.8	6.2
140°-150°	377.8	4.7
150°-160°	266.7	3.3
160°-170°	163.8	2.0
170°-180°	55.8	0.7
0°-30°	1120.5	13.8
0°-40°	1829.5	22.6
0°-60°	3237.7	40.0
0°-90°	4165.6	51.4
90°-120°	1932.5	23.9
90°-150°	3449.0	42.6
90°-180°	3935.0	48.6
0°-180°	8100.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1458	1443	1447	1443	1439	138
15°	1400	1388	1392	1390	1386	395
25°	1294	1280	1284	1278	1274	596
35°	1142	1131	1135	1131	1133	713
45°	952	948	960	962	962	735
55°	740	742	760	752	754	663
65°	518	524	532	526	526	513
75°	296	302	298	296	294	311
85°	82	86	82	80	73	88
90°	6	12	12	14	10	9
95°	39	120	673	302	192	41
105°	122	218	836	1402	1231	130
115°	210	279	658	1421	1655	208
125°	290	342	620	1074	1282	259
135°	367	402	599	895	1032	283
145°	440	463	575	734	813	276
155°	506	516	569	628	660	234
165°	561	561	577	593	599	158
175°	591	583	585	585	583	56
180°	587	587	587	587	587	



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CATALOG NUMBER: CTA-F-5050-40L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1463.6	1449.3	1451.4	1449.3	1439.2
5°	1457.5	1443.2	1447.3	1443.2	1439.2
7.5°	1449.3	1435.1	1439.2	1435.1	1433.0
10°	1437.1	1422.8	1426.9	1422.8	1418.8
12.5°	1420.8	1406.5	1410.6	1406.5	1404.5
15°	1400.4	1388.2	1392.3	1390.2	1386.2
17.5°	1380.0	1365.8	1369.8	1369.8	1363.7
20°	1353.5	1341.3	1345.4	1341.3	1337.2
22.5°	1327.0	1312.8	1316.8	1310.7	1308.7
25°	1294.4	1280.2	1284.2	1278.1	1274.0
27.5°	1259.8	1245.5	1249.6	1243.5	1239.4
30°	1223.1	1210.8	1212.9	1206.8	1202.7
32.5°	1182.3	1172.1	1176.2	1168.0	1168.0
35°	1141.5	1131.3	1135.4	1131.3	1133.4
37.5°	1094.7	1086.5	1090.6	1094.7	1092.6
40°	1049.8	1041.7	1045.7	1051.8	1053.9
42.5°	1002.9	994.8	1002.9	1007.0	1009.0
45°	952.0	947.9	960.1	962.2	962.2
47.5°	903.0	896.9	909.2	913.2	915.3
50°	850.0	846.0	862.3	862.3	862.3
52.5°	797.0	795.0	813.3	809.3	809.3
55°	740.0	742.0	760.3	752.2	754.2
57.5°	684.9	687.0	703.3	699.2	697.2
60°	631.9	636.0	648.2	642.1	642.1
62.5°	576.9	581.0	589.1	585.0	583.0
65°	517.8	523.9	532.0	525.9	525.9
67.5°	460.7	468.8	468.8	466.8	464.8
70°	405.7	413.8	411.8	409.7	405.7
72.5°	350.6	358.8	352.7	352.7	350.6
75°	295.6	301.7	297.6	295.6	293.5
77.5°	238.5	244.6	242.6	238.5	234.4
80°	183.5	189.6	185.5	183.5	179.4
82.5°	132.5	136.6	134.5	130.5	126.4
85°	81.5	85.6	81.5	79.5	73.4
87.5°	34.7	38.7	34.7	30.6	26.5
90°	6.1	12.2	12.2	14.3	10.2
92.5°	22.4	81.5	260.9	75.4	48.9
95°	38.7	120.3	672.7	301.7	191.6
97.5°	61.2	146.8	852.1	558.5	417.9
100°	79.5	189.6	923.4	831.7	631.9
102.5°	101.9	212.0	892.8	1143.6	917.3
105°	122.3	218.1	835.8	1402.5	1231.2
107.5°	144.7	224.2	825.6	1532.9	1492.2
110°	167.2	240.5	770.5	1561.5	1638.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.6	258.9	701.2	1520.7	1687.8
115°	210.0	279.3	658.4	1420.8	1655.2
117.5°	230.3	297.6	636.0	1308.7	1565.5
120°	250.7	311.9	625.8	1217.0	1461.6
122.5°	271.1	328.2	619.7	1133.4	1361.7
125°	289.5	342.5	619.7	1074.3	1282.2
127.5°	309.8	356.7	617.7	1023.3	1204.7
130°	328.2	371.0	613.6	980.5	1141.5
132.5°	346.5	387.3	605.4	937.7	1084.5
135°	366.9	401.6	599.3	894.9	1031.5
137.5°	385.3	415.8	591.2	852.1	976.4
140°	403.6	432.2	585.0	811.3	919.3
142.5°	422.0	448.5	578.9	770.5	864.3
145°	440.3	462.7	574.8	733.8	813.3
147.5°	458.7	475.0	572.8	699.2	768.5
150°	475.0	489.2	568.7	670.7	723.7
152.5°	491.3	501.5	568.7	648.2	689.0
155°	505.5	515.7	568.7	627.8	660.5
157.5°	525.9	532.0	570.8	613.6	638.0
160°	538.2	542.2	572.8	603.4	617.7
162.5°	550.4	552.4	576.9	599.3	607.5
165°	560.6	560.6	576.9	593.2	599.3
167.5°	570.8	568.7	581.0	589.1	593.2
170°	578.9	574.8	583.0	589.1	589.1
172.5°	585.0	581.0	585.0	587.1	587.1
175°	591.2	583.0	585.0	585.0	583.0
177.5°	593.2	585.0	585.0	585.0	578.9
180°	587.1	587.1	587.1	587.1	587.1

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