

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: P302070

Luminaire Tested: **ZX-WO-39L840-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-39L840-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.8 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

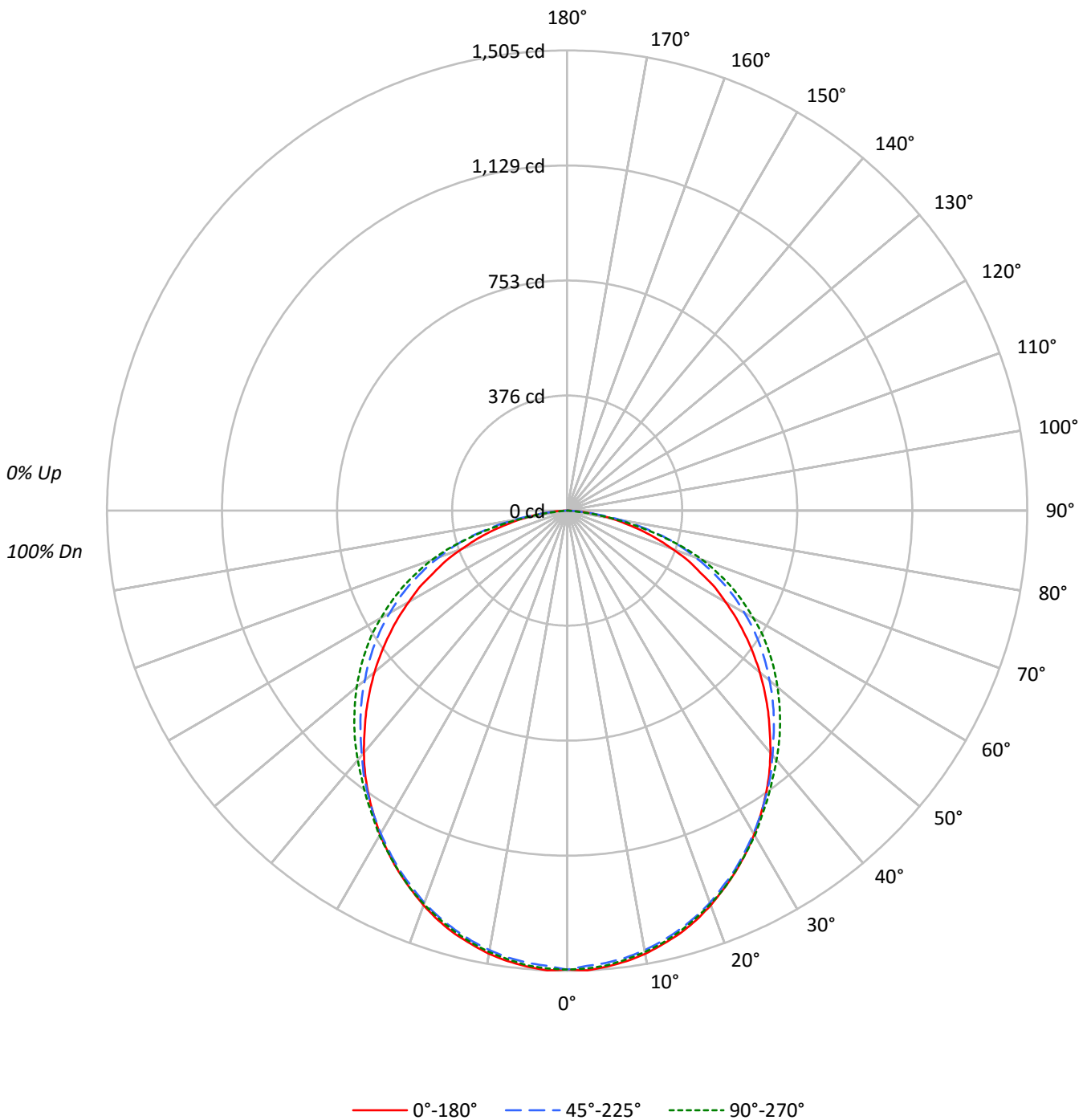
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P302070

CATALOG NUMBER: ZX-WO-39L840-UNV-14-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302070

CATALOG NUMBER: ZX-WO-39L840-UNV-14-STD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4039	4039	4039
5°	4044	4011	4033
10°	4023	3989	4006
15°	3987	3953	3970
20°	3934	3910	3922
25°	3871	3852	3865
30°	3802	3789	3814
35°	3722	3729	3763
40°	3633	3669	3742
45°	3537	3639	3749
50°	3443	3616	3762
55°	3338	3618	3782
60°	3221	3608	3785
65°	3064	3587	3784
70°	2880	3511	3705
75°	2609	3356	3250
80°	2230	2709	2390
85°	1587	1269	380



TEST NUMBER: P302070

CATALOG NUMBER: ZX-WO-39L840-UNV-14-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.4
10°-20°	401.9	9.6
20°-30°	599.5	14.3
30°-40°	712.3	16.9
40°-50°	739.4	17.6
50°-60°	683.7	16.3
60°-70°	544.7	13.0
70°-80°	318.8	7.6
80°-90°	61.8	1.5
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°	1143.1	27.2
0°-40°	1855.4	44.1
0°-60°	3278.5	78.0
0°-90°	4203.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1497	1493	1485	1493	1493	142
15°	1431	1429	1419	1429	1425	403
25°	1304	1302	1298	1304	1302	600
35°	1133	1133	1135	1143	1145	708
45°	930	940	956	979	985	717
55°	712	732	771	798	806	636
65°	481	516	563	586	594	479
75°	251	292	323	319	313	266
85°	51	62	41	21	12	64
90°	0	0	0	0	0	



TEST NUMBER: P302070

CATALOG NUMBER: ZX-WO-39L840-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1505.2	1501.1	1490.8	1501.1	1499.1
5°	1497.0	1492.9	1484.7	1492.9	1492.9
7.5°	1486.7	1482.6	1474.4	1482.6	1480.6
10°	1472.3	1468.2	1460.0	1468.2	1466.2
12.5°	1451.8	1449.7	1441.5	1449.7	1447.7
15°	1431.2	1429.1	1418.9	1429.1	1425.0
17.5°	1404.5	1402.4	1394.2	1400.4	1398.3
20°	1373.6	1369.5	1365.4	1371.6	1369.5
22.5°	1338.7	1336.6	1330.4	1340.7	1338.7
25°	1303.7	1301.7	1297.5	1303.7	1301.7
27.5°	1264.6	1262.6	1258.5	1266.7	1264.6
30°	1223.5	1223.5	1219.4	1229.7	1227.6
32.5°	1178.3	1178.3	1178.3	1184.4	1184.4
35°	1133.0	1133.0	1135.1	1143.3	1145.4
37.5°	1085.7	1085.7	1091.9	1104.2	1104.2
40°	1034.3	1038.4	1044.6	1063.1	1065.2
42.5°	980.9	989.1	999.4	1022.0	1026.1
45°	929.5	939.7	956.2	978.8	985.0
47.5°	876.0	888.3	911.0	935.6	941.8
50°	822.5	839.0	863.7	892.4	898.6
52.5°	767.0	785.5	818.4	847.2	853.4
55°	711.5	732.1	771.1	797.9	806.1
57.5°	656.0	678.6	721.8	748.5	758.8
60°	598.4	623.1	670.4	695.0	703.3
62.5°	544.9	571.7	619.0	641.6	649.8
65°	481.2	516.1	563.4	586.1	594.3
67.5°	429.8	462.7	505.9	530.5	532.6
70°	366.0	407.2	446.2	466.8	470.9
72.5°	308.4	349.6	388.6	396.9	396.9
75°	250.9	292.0	322.8	318.7	312.6
77.5°	193.3	234.4	250.9	236.5	230.3
80°	143.9	178.9	174.8	160.4	154.2
82.5°	94.6	121.3	102.8	86.4	78.1
85°	51.4	61.7	41.1	20.6	12.3
87.5°	18.5	12.3	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)