

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: P302213

Luminaire Tested: **ZX-WO-39L840-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-39L840-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

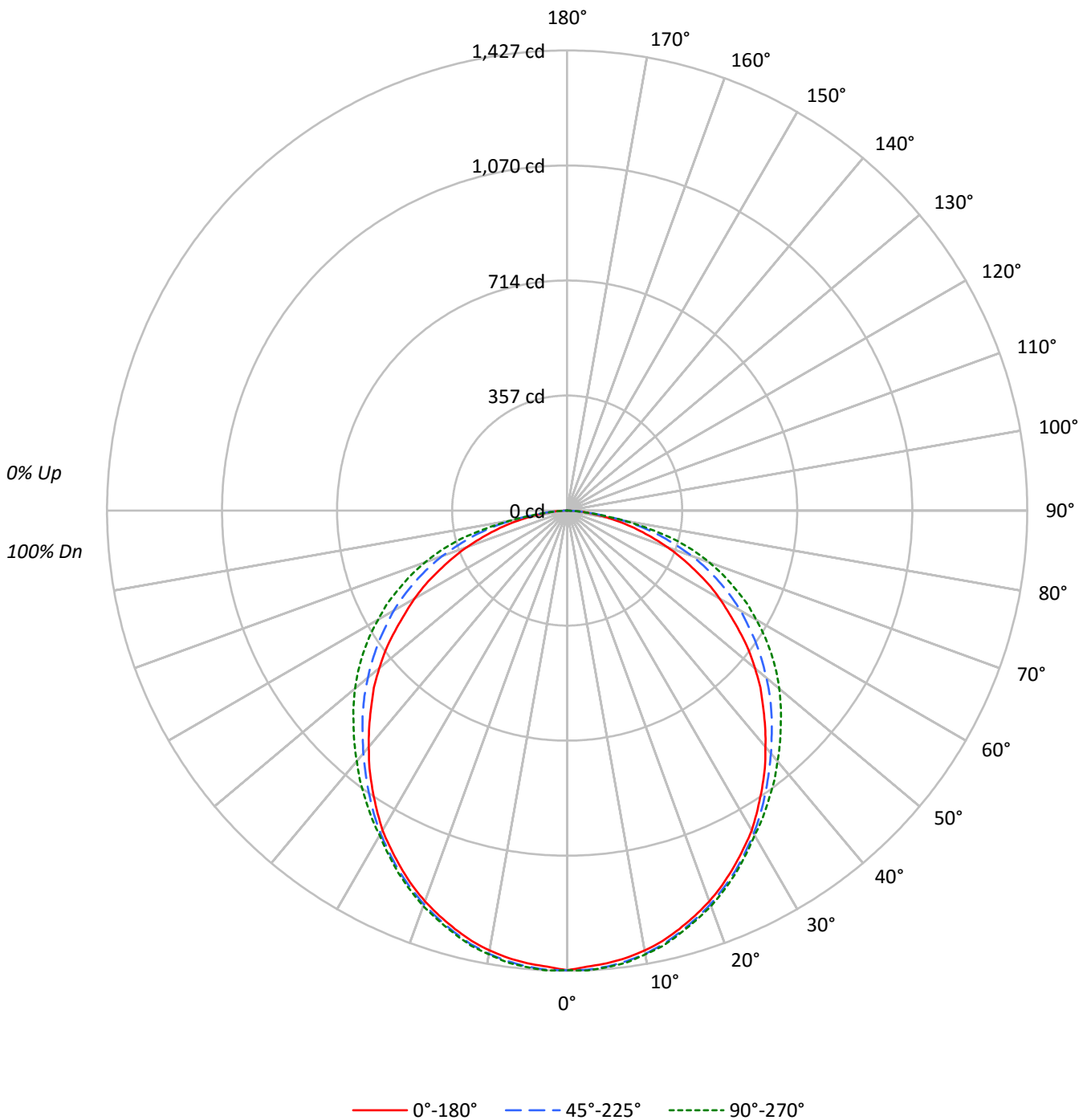
Lumens per Lamp: N/A
Luminaire Lumens: 3961.8 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (A_{in}): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	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	47	38	32	59	46	38	32	45	37	32	43	37	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°	3836	3836	3836
5°	3807	3834	3840
10°	3786	3813	3818
15°	3742	3770	3781
20°	3692	3721	3738
25°	3626	3662	3679
30°	3558	3595	3614
35°	3459	3519	3584
40°	3361	3453	3566
45°	3268	3413	3565
50°	3185	3378	3595
55°	3062	3353	3626
60°	2941	3340	3642
65°	2779	3301	3671
70°	2599	3245	3686
75°	2331	3081	3559
80°	1954	2700	2731
85°	1544	1544	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.4
10°-20°	381.2	9.6
20°-30°	567.3	14.3
30°-40°	671.0	16.9
40°-50°	693.4	17.5
50°-60°	637.5	16.1
60°-70°	507.0	12.8
70°-80°	303.6	7.7
80°-90°	66.2	1.7
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°	1083.0	27.3
0°-40°	1754.1	44.3
0°-60°	3085.0	77.9
0°-90°	3961.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1409	1413	1419	1421	1421	134
15°	1343	1347	1353	1357	1357	379
25°	1221	1225	1233	1239	1239	563
35°	1053	1059	1071	1085	1091	659
45°	859	867	897	929	937	664
55°	653	667	715	759	773	584
65°	436	462	518	565	577	434
75°	224	254	296	330	342	237
85°	50	54	50	46	40	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.4	1425.4	1425.4	1425.4	1425.4
2.5°	1415.4	1419.4	1425.4	1427.4	1427.4
5°	1409.4	1413.4	1419.4	1421.4	1421.4
7.5°	1399.4	1403.4	1409.4	1411.4	1413.4
10°	1385.4	1389.4	1395.4	1397.4	1397.4
12.5°	1367.3	1369.3	1377.4	1379.4	1381.4
15°	1343.3	1347.3	1353.3	1357.3	1357.3
17.5°	1317.3	1321.3	1327.3	1331.3	1331.3
20°	1289.3	1293.3	1299.3	1303.3	1305.3
22.5°	1257.2	1261.2	1267.2	1273.3	1273.3
25°	1221.2	1225.2	1233.2	1239.2	1239.2
27.5°	1183.2	1187.2	1195.2	1201.2	1201.2
30°	1145.1	1147.1	1157.1	1161.1	1163.1
32.5°	1099.1	1105.1	1115.1	1123.1	1129.1
35°	1053.0	1059.0	1071.1	1085.1	1091.1
37.5°	1007.0	1013.0	1027.0	1047.0	1055.0
40°	956.9	964.9	983.0	1009.0	1015.0
42.5°	908.9	918.9	938.9	969.0	977.0
45°	858.8	866.9	896.9	928.9	936.9
47.5°	812.8	818.8	852.8	888.9	898.9
50°	760.7	768.8	806.8	846.8	858.8
52.5°	708.7	718.7	760.7	802.8	816.8
55°	652.6	666.7	714.7	758.7	772.8
57.5°	596.6	616.6	666.7	710.7	726.7
60°	546.5	564.6	620.6	662.7	676.7
62.5°	494.5	514.5	570.6	612.6	630.6
65°	436.4	462.5	518.5	564.6	576.6
67.5°	384.4	410.4	466.5	508.5	524.5
70°	330.3	360.4	412.4	450.4	468.5
72.5°	274.3	306.3	352.3	392.4	410.4
75°	224.2	254.2	296.3	330.3	342.3
77.5°	174.2	202.2	236.2	256.3	260.3
80°	126.1	148.1	174.2	178.2	176.2
82.5°	84.1	100.1	108.1	104.1	104.1
85°	50.0	54.1	50.0	46.0	40.0
87.5°	18.0	16.0	12.0	8.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)