

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: P302058

Luminaire Tested: **ZX-WO-39L830-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302058
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-39L830-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4037.4 lumens
Efficiency: N/A
Efficacy: 137.8 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

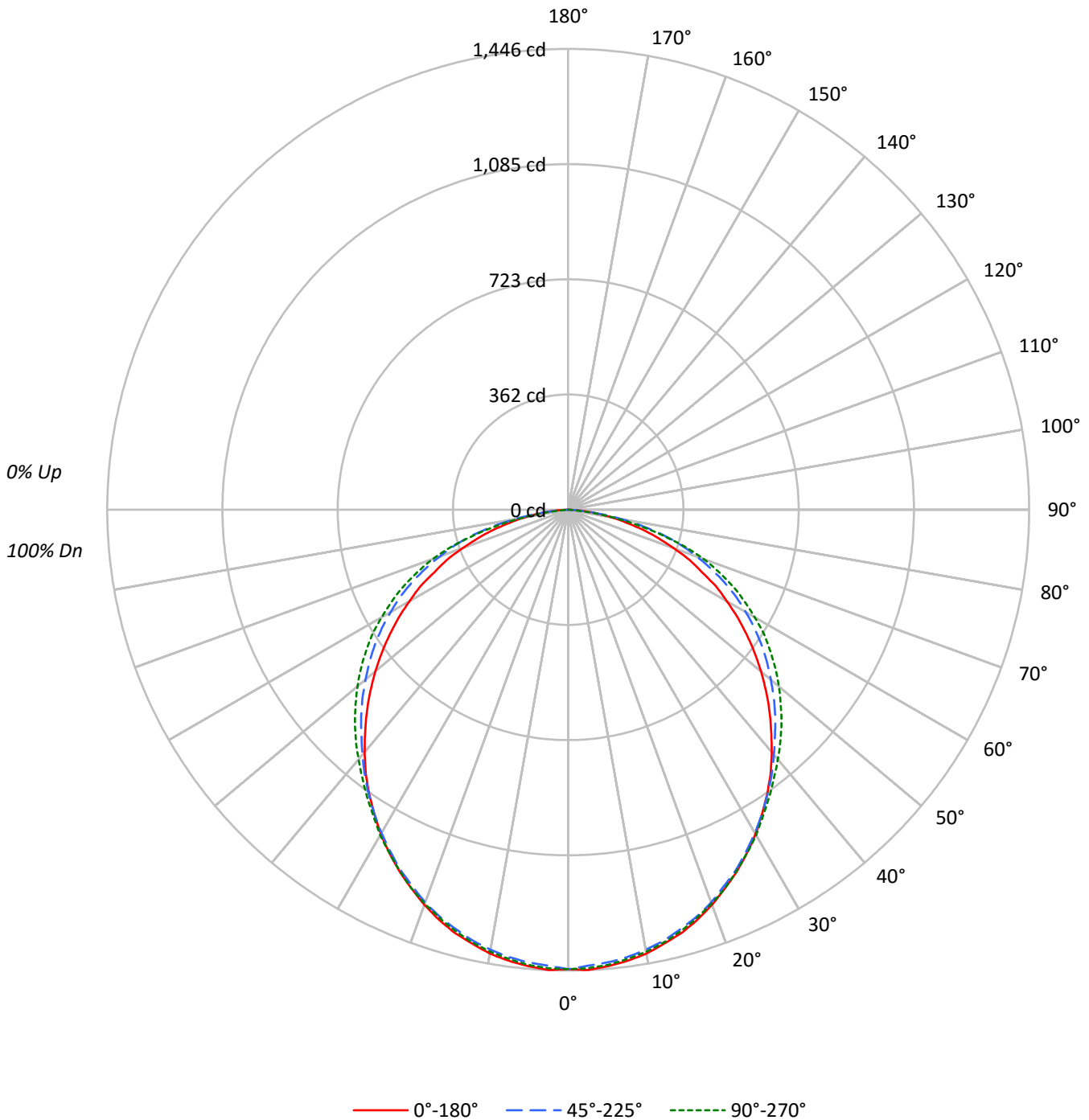
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3880	3880	3880
5°	3884	3852	3873
10°	3864	3831	3848
15°	3830	3796	3813
20°	3778	3755	3767
25°	3718	3700	3712
30°	3651	3639	3663
35°	3575	3581	3614
40°	3490	3524	3594
45°	3397	3495	3600
50°	3307	3473	3613
55°	3206	3475	3632
60°	3093	3465	3635
65°	2942	3445	3635
70°	2766	3372	3559
75°	2505	3224	3121
80°	2142	2602	2295
85°	1525	1220	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.4
10°-20°	386.0	9.6
20°-30°	575.8	14.3
30°-40°	684.1	16.9
40°-50°	710.1	17.6
50°-60°	656.7	16.3
60°-70°	523.1	13.0
70°-80°	306.2	7.6
80°-90°	59.4	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°	1097.8	27.2
0°-40°	1781.9	44.1
0°-60°	3148.7	78.0
0°-90°	4037.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1438	1434	1426	1434	1434	137
15°	1375	1373	1363	1373	1369	387
25°	1252	1250	1246	1252	1250	577
35°	1088	1088	1090	1098	1100	680
45°	893	902	918	940	946	689
55°	683	703	741	766	774	611
65°	462	496	541	563	571	461
75°	241	280	310	306	300	255
85°	49	59	40	20	12	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.7	1441.7	1441.7	1441.7	1441.7
2.5°	1445.7	1441.7	1431.8	1441.7	1439.7
5°	1437.8	1433.8	1425.9	1433.8	1433.8
7.5°	1427.9	1423.9	1416.0	1423.9	1422.0
10°	1414.1	1410.1	1402.2	1410.1	1408.1
12.5°	1394.3	1392.3	1384.4	1392.3	1390.4
15°	1374.6	1372.6	1362.7	1372.6	1368.6
17.5°	1348.9	1346.9	1339.0	1344.9	1343.0
20°	1319.3	1315.3	1311.4	1317.3	1315.3
22.5°	1285.7	1283.7	1277.8	1287.7	1285.7
25°	1252.1	1250.1	1246.2	1252.1	1250.1
27.5°	1214.6	1212.6	1208.7	1216.6	1214.6
30°	1175.1	1175.1	1171.1	1181.0	1179.0
32.5°	1131.6	1131.6	1131.6	1137.6	1137.6
35°	1088.2	1088.2	1090.2	1098.1	1100.0
37.5°	1042.8	1042.8	1048.7	1060.5	1060.5
40°	993.4	997.3	1003.3	1021.0	1023.0
42.5°	942.0	949.9	959.8	981.5	985.5
45°	892.7	902.5	918.3	940.1	946.0
47.5°	841.3	853.2	874.9	898.6	904.5
50°	790.0	805.8	829.5	857.1	863.0
52.5°	736.7	754.4	786.0	813.7	819.6
55°	683.3	703.1	740.6	766.3	774.2
57.5°	630.0	651.7	693.2	718.9	728.8
60°	574.7	598.4	643.8	667.5	675.4
62.5°	523.4	549.0	594.5	616.2	624.1
65°	462.1	495.7	541.1	562.9	570.8
67.5°	412.8	444.4	485.8	509.5	511.5
70°	351.5	391.0	428.6	448.3	452.3
72.5°	296.2	335.7	373.3	381.2	381.2
75°	240.9	280.4	310.1	306.1	300.2
77.5°	185.6	225.1	240.9	227.1	221.2
80°	138.2	171.8	167.9	154.0	148.1
82.5°	90.8	116.5	98.7	82.9	75.0
85°	49.4	59.2	39.5	19.7	11.8
87.5°	17.8	11.8	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)