

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: P302209

Luminaire Tested: **ZX-WO-20L840-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302209
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-20L840-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (112)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

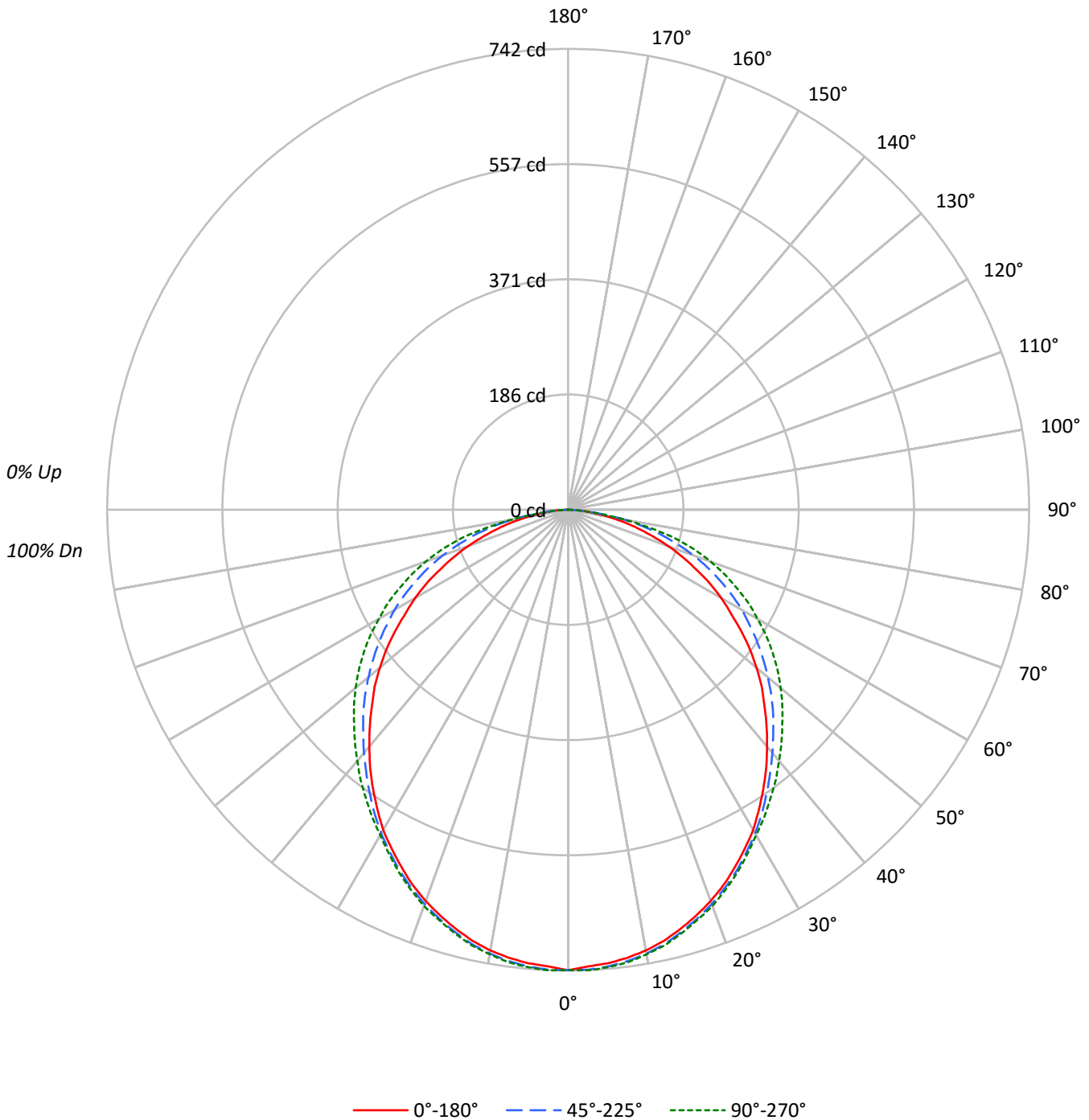
Lumens per Lamp: N/A
Luminaire Lumens: 2060.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	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°	1995	1995	1995
5°	1980	1994	1997
10°	1969	1983	1986
15°	1947	1961	1967
20°	1920	1935	1944
25°	1886	1904	1914
30°	1851	1870	1880
35°	1799	1830	1864
40°	1748	1796	1854
45°	1700	1775	1854
50°	1657	1757	1870
55°	1592	1744	1886
60°	1530	1737	1894
65°	1445	1717	1910
70°	1352	1688	1917
75°	1212	1602	1851
80°	1017	1404	1420
85°	803	803	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.4
10°-20°	198.3	9.6
20°-30°	295.0	14.3
30°-40°	349.0	16.9
40°-50°	360.6	17.5
50°-60°	331.6	16.1
60°-70°	263.7	12.8
70°-80°	157.9	7.7
80°-90°	34.4	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°	563.3	27.3
0°-40°	912.3	44.3
0°-60°	1604.5	77.9
0°-90°	2060.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	733	735	738	739	739	70
15°	699	701	704	706	706	197
25°	635	637	641	644	644	293
35°	548	551	557	564	568	343
45°	447	451	466	483	487	345
55°	339	347	372	395	402	304
65°	227	240	270	294	300	226
75°	117	132	154	172	178	124
85°	26	28	26	24	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.3	741.3	741.3	741.3	741.3
2.5°	736.1	738.2	741.3	742.4	742.4
5°	733.0	735.1	738.2	739.3	739.3
7.5°	727.8	729.9	733.0	734.1	735.1
10°	720.5	722.6	725.7	726.8	726.8
12.5°	711.1	712.2	716.4	717.4	718.4
15°	698.7	700.7	703.9	705.9	705.9
17.5°	685.1	687.2	690.3	692.4	692.4
20°	670.5	672.6	675.7	677.8	678.9
22.5°	653.9	656.0	659.1	662.2	662.2
25°	635.1	637.2	641.4	644.5	644.5
27.5°	615.4	617.4	621.6	624.7	624.7
30°	595.6	596.6	601.8	603.9	604.9
32.5°	571.6	574.7	580.0	584.1	587.2
35°	547.7	550.8	557.0	564.3	567.5
37.5°	523.7	526.9	534.1	544.6	548.7
40°	497.7	501.9	511.2	524.8	527.9
42.5°	472.7	477.9	488.3	503.9	508.1
45°	446.7	450.8	466.5	483.1	487.3
47.5°	422.7	425.9	443.6	462.3	467.5
50°	395.7	399.8	419.6	440.4	446.7
52.5°	368.6	373.8	395.7	417.5	424.8
55°	339.4	346.7	371.7	394.6	401.9
57.5°	310.3	320.7	346.7	369.6	378.0
60°	284.3	293.6	322.8	344.6	351.9
62.5°	257.2	267.6	296.7	318.6	328.0
65°	227.0	240.5	269.7	293.6	299.9
67.5°	199.9	213.4	242.6	264.5	272.8
70°	171.8	187.4	214.5	234.3	243.6
72.5°	142.6	159.3	183.3	204.1	213.4
75°	116.6	132.2	154.1	171.8	178.0
77.5°	90.6	105.2	122.9	133.3	135.4
80°	65.6	77.0	90.6	92.7	91.6
82.5°	43.7	52.1	56.2	54.1	54.1
85°	26.0	28.1	26.0	23.9	20.8
87.5°	9.4	8.3	6.2	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)