

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: P302090

Luminaire Tested: **ZX-WO-48L940-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302090
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-48L940-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

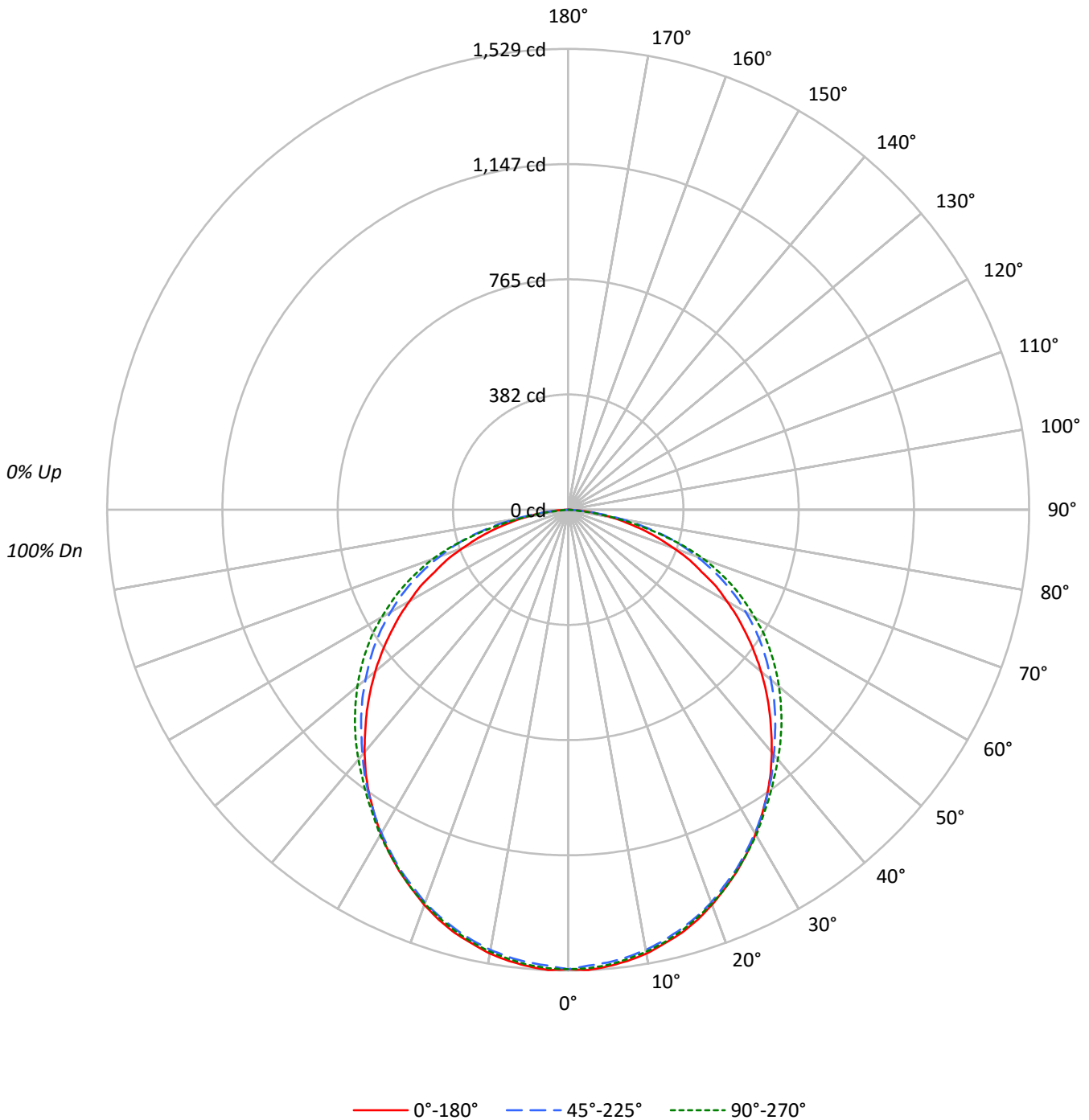
Lumens per Lamp: N/A
Luminaire Lumens: 4269.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4103	4103	4103
5°	4108	4073	4096
10°	4086	4052	4069
15°	4050	4015	4033
20°	3995	3972	3984
25°	3932	3913	3926
30°	3862	3849	3874
35°	3781	3788	3822
40°	3691	3727	3801
45°	3593	3696	3808
50°	3498	3672	3821
55°	3391	3675	3841
60°	3271	3665	3844
65°	3112	3644	3843
70°	2925	3566	3763
75°	2649	3409	3301
80°	2266	2751	2428
85°	1612	1291	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.4
10°-20°	408.3	9.6
20°-30°	609.0	14.3
30°-40°	723.5	16.9
40°-50°	751.0	17.6
50°-60°	694.5	16.3
60°-70°	553.2	13.0
70°-80°	323.8	7.6
80°-90°	62.8	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°	1161.0	27.2
0°-40°	1884.6	44.1
0°-60°	3330.1	78.0
0°-90°	4269.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1521	1516	1508	1516	1516	144
15°	1454	1452	1441	1452	1448	410
25°	1324	1322	1318	1324	1322	610
35°	1151	1151	1153	1161	1163	720
45°	944	954	971	994	1000	728
55°	723	744	783	810	819	646
65°	489	524	572	595	604	487
75°	255	297	328	324	318	270
85°	52	63	42	21	12	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1524.7	1524.7	1524.7	1524.7	1524.7
2.5°	1528.9	1524.7	1514.3	1524.7	1522.7
5°	1520.6	1516.4	1508.0	1516.4	1516.4
7.5°	1510.1	1505.9	1497.6	1505.9	1503.9
10°	1495.5	1491.3	1483.0	1491.3	1489.2
12.5°	1474.6	1472.5	1464.2	1472.5	1470.4
15°	1453.7	1451.6	1441.2	1451.6	1447.5
17.5°	1426.6	1424.5	1416.1	1422.4	1420.3
20°	1395.2	1391.1	1386.9	1393.2	1391.1
22.5°	1359.7	1357.6	1351.4	1361.8	1359.7
25°	1324.2	1322.1	1318.0	1324.2	1322.1
27.5°	1284.5	1282.5	1278.3	1286.6	1284.5
30°	1242.8	1242.8	1238.6	1249.0	1246.9
32.5°	1196.8	1196.8	1196.8	1203.1	1203.1
35°	1150.9	1150.9	1153.0	1161.3	1163.4
37.5°	1102.8	1102.8	1109.1	1121.6	1121.6
40°	1050.6	1054.8	1061.1	1079.9	1081.9
42.5°	996.3	1004.7	1015.1	1038.1	1042.3
45°	944.1	954.5	971.2	994.2	1000.5
47.5°	889.8	902.3	925.3	950.4	956.6
50°	835.5	852.2	877.2	906.5	912.8
52.5°	779.1	797.9	831.3	860.5	866.8
55°	722.7	743.6	783.3	810.4	818.8
57.5°	666.3	689.3	733.1	760.3	770.7
60°	607.8	632.9	680.9	706.0	714.3
62.5°	553.5	580.7	628.7	651.7	660.0
65°	488.8	524.3	572.3	595.3	603.6
67.5°	436.5	470.0	513.8	538.9	541.0
70°	371.8	413.6	453.2	474.1	478.3
72.5°	313.3	355.1	394.8	403.1	403.1
75°	254.8	296.6	327.9	323.7	317.5
77.5°	196.3	238.1	254.8	240.2	233.9
80°	146.2	181.7	177.5	162.9	156.7
82.5°	96.1	123.2	104.4	87.7	79.4
85°	52.2	62.7	41.8	20.9	12.5
87.5°	18.8	12.5	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)