

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: P219973

Luminaire Tested: **R3-WD-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-2L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2691.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

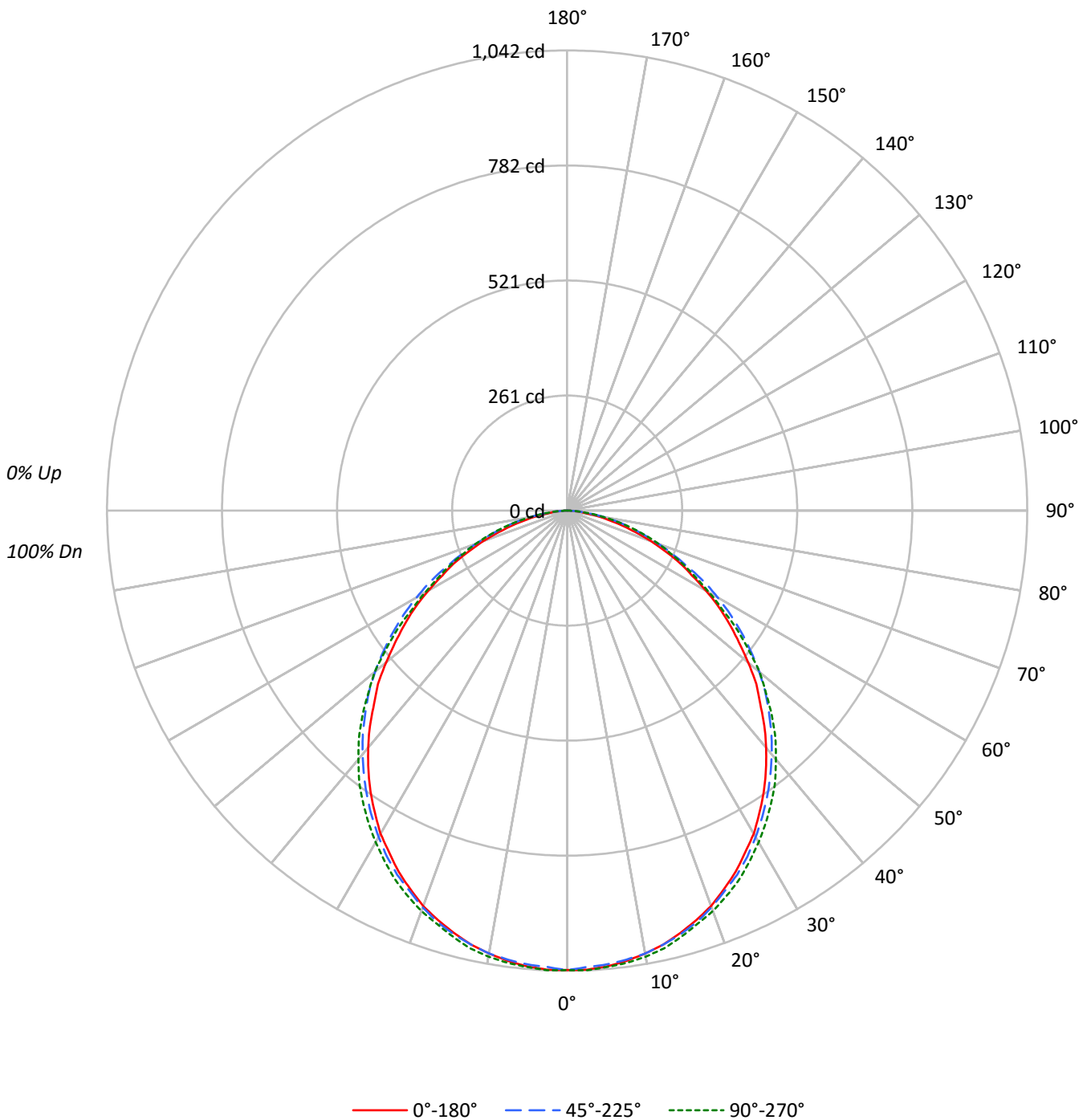
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2800	2800	2800
5°	2799	2786	2803
10°	2782	2782	2802
15°	2758	2766	2783
20°	2729	2738	2763
25°	2680	2702	2737
30°	2625	2653	2694
35°	2551	2595	2649
40°	2462	2530	2582
45°	2352	2459	2493
50°	2240	2376	2382
55°	2107	2260	2204
60°	1954	2122	2002
65°	1803	1916	1859
70°	1586	1726	1737
75°	1310	1556	1572
80°	1010	1309	1286
85°	685	914	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.7
10°-20°	280.6	10.4
20°-30°	419.9	15.6
30°-40°	494.7	18.4
40°-50°	495.0	18.4
50°-60°	420.3	15.6
60°-70°	293.4	10.9
70°-80°	154.5	5.7
80°-90°	34.9	1.3
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°	798.8	29.7
0°-40°	1293.5	48.1
0°-60°	2208.9	82.1
0°-90°	2691.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1036	1036	1032	1038	1038	98
15°	990	993	993	999	999	279
25°	903	907	910	922	922	415
35°	777	781	790	803	806	485
45°	618	628	646	657	655	478
55°	449	465	482	479	470	401
65°	283	298	301	295	292	278
75°	126	142	150	151	151	135
85°	22	28	30	28	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1040.4	1039.0	1034.5	1040.4	1041.9
5°	1036.0	1036.0	1031.5	1037.5	1037.5
7.5°	1028.6	1030.1	1025.6	1033.0	1033.0
10°	1018.2	1019.7	1018.2	1025.6	1025.6
12.5°	1006.4	1007.8	1006.4	1013.8	1015.2
15°	990.0	993.0	993.0	998.9	998.9
17.5°	972.3	975.2	976.7	981.2	981.2
20°	953.0	956.0	956.0	963.4	964.9
22.5°	927.8	932.2	932.2	944.1	944.1
25°	902.6	907.0	910.0	921.9	921.9
27.5°	873.0	877.4	883.3	895.2	895.2
30°	844.8	846.3	853.7	862.6	867.0
32.5°	810.7	815.2	822.6	835.9	837.4
35°	776.6	781.1	790.0	803.3	806.3
37.5°	739.6	744.0	755.9	772.2	773.7
40°	701.0	705.5	720.3	736.6	735.1
42.5°	661.0	666.9	684.7	696.6	698.1
45°	618.0	628.4	646.2	656.6	655.1
47.5°	581.0	588.4	609.1	613.6	610.6
50°	535.0	548.4	567.6	570.6	569.1
52.5°	490.6	503.9	524.7	524.7	517.3
55°	449.1	465.4	481.7	478.7	469.8
57.5°	407.6	420.9	438.7	429.8	416.5
60°	363.1	379.4	394.2	379.4	372.0
62.5°	318.7	340.9	349.8	333.5	329.0
65°	283.1	297.9	300.9	294.9	292.0
67.5°	240.1	259.4	259.4	256.4	253.4
70°	201.6	217.9	219.4	220.8	220.8
72.5°	161.5	180.8	182.3	186.7	185.3
75°	126.0	142.3	149.7	151.2	151.2
77.5°	93.4	106.7	117.1	117.1	115.6
80°	65.2	77.1	84.5	84.5	83.0
82.5°	40.0	50.4	56.3	54.8	54.8
85°	22.2	28.2	29.6	28.2	28.2
87.5°	8.9	10.4	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)