

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: P219978

Luminaire Tested: **R3-WD-2L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219978
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-2L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2722.2 lumens
Efficiency: N/A
Efficacy: 114.4 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

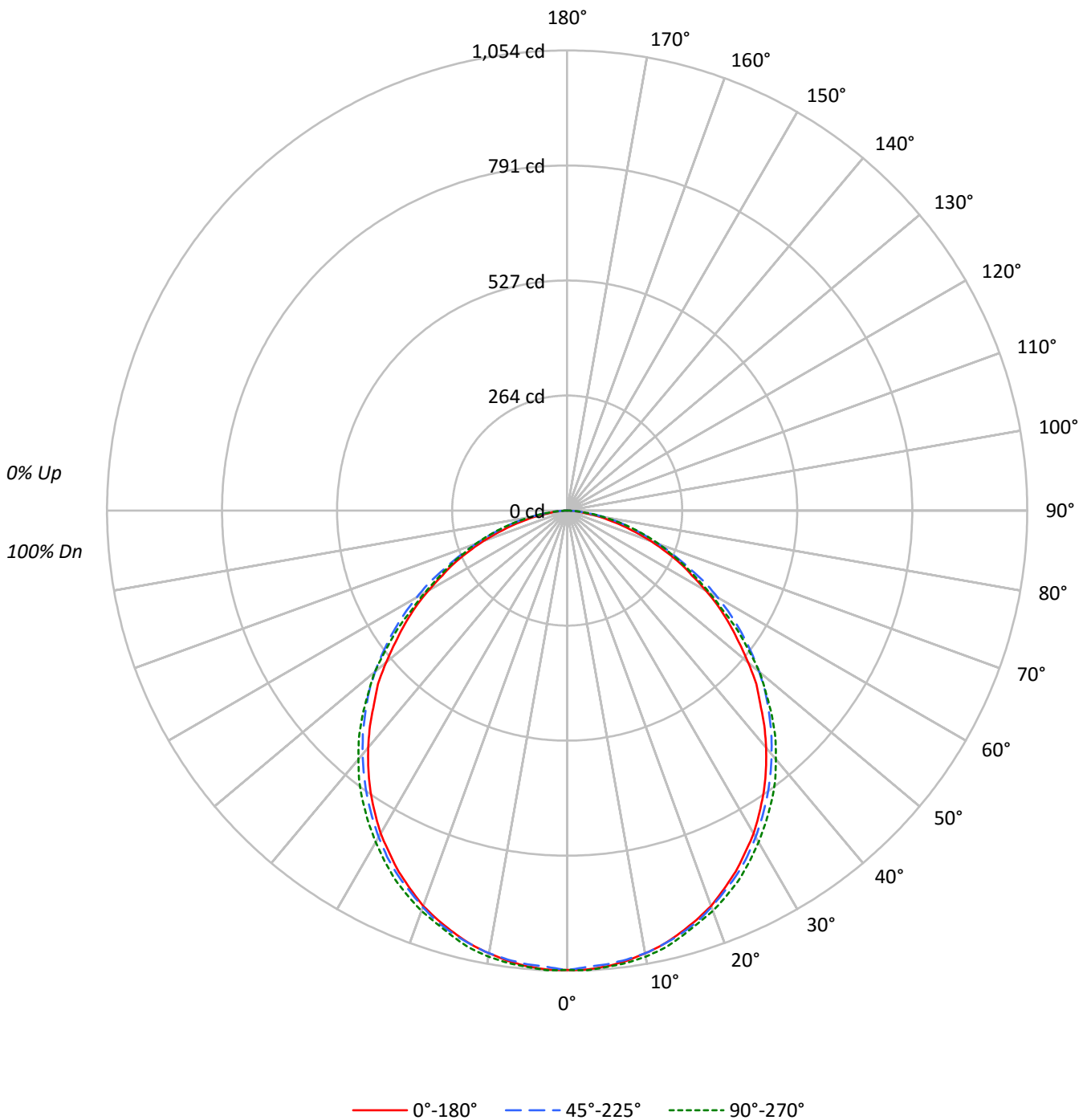
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2831	2831	2831
5°	2830	2818	2834
10°	2814	2814	2834
15°	2790	2798	2815
20°	2760	2769	2794
25°	2710	2733	2768
30°	2655	2683	2725
35°	2580	2624	2679
40°	2491	2559	2612
45°	2379	2487	2521
50°	2265	2403	2410
55°	2131	2286	2229
60°	1976	2146	2025
65°	1823	1938	1880
70°	1604	1745	1757
75°	1325	1574	1590
80°	1023	1323	1300
85°	695	926	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.7
10°-20°	283.8	10.4
20°-30°	424.6	15.6
30°-40°	500.3	18.4
40°-50°	500.6	18.4
50°-60°	425.1	15.6
60°-70°	296.7	10.9
70°-80°	156.3	5.7
80°-90°	35.3	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°	807.9	29.7
0°-40°	1308.2	48.1
0°-60°	2234.0	82.1
0°-90°	2722.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1048	1048	1043	1049	1049	99
15°	1001	1004	1004	1010	1010	282
25°	913	917	920	932	932	420
35°	785	790	799	812	815	491
45°	625	636	654	664	662	483
55°	454	471	487	484	475	406
65°	286	301	304	298	295	281
75°	127	144	151	153	153	137
85°	22	28	30	28	28	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.2	1052.2	1052.2	1052.2	1052.2
2.5°	1052.2	1050.7	1046.2	1052.2	1053.7
5°	1047.7	1047.7	1043.3	1049.2	1049.2
7.5°	1040.3	1041.8	1037.3	1044.8	1044.8
10°	1029.8	1031.3	1029.8	1037.3	1037.3
12.5°	1017.8	1019.3	1017.8	1025.3	1026.8
15°	1001.3	1004.3	1004.3	1010.3	1010.3
17.5°	983.3	986.3	987.8	992.3	992.3
20°	963.8	966.8	966.8	974.3	975.8
22.5°	938.3	942.8	942.8	954.8	954.8
25°	912.8	917.3	920.3	932.3	932.3
27.5°	882.9	887.4	893.4	905.4	905.4
30°	854.4	855.9	863.4	872.4	876.9
32.5°	819.9	824.4	831.9	845.4	846.9
35°	785.4	789.9	798.9	812.4	815.4
37.5°	748.0	752.5	764.5	780.9	782.4
40°	709.0	713.5	728.5	745.0	743.5
42.5°	668.5	674.5	692.5	704.5	706.0
45°	625.1	635.5	653.5	664.0	662.5
47.5°	587.6	595.1	616.1	620.6	617.6
50°	541.1	554.6	574.1	577.1	575.6
52.5°	496.1	509.6	530.6	530.6	523.1
55°	454.2	470.7	487.2	484.2	475.2
57.5°	412.2	425.7	443.7	434.7	421.2
60°	367.2	383.7	398.7	383.7	376.2
62.5°	322.3	344.8	353.7	337.3	332.8
65°	286.3	301.3	304.3	298.3	295.3
67.5°	242.8	262.3	262.3	259.3	256.3
70°	203.9	220.3	221.8	223.3	223.3
72.5°	163.4	182.9	184.4	188.9	187.4
75°	127.4	143.9	151.4	152.9	152.9
77.5°	94.4	107.9	118.4	118.4	116.9
80°	66.0	77.9	85.4	85.4	83.9
82.5°	40.5	51.0	57.0	55.5	55.5
85°	22.5	28.5	30.0	28.5	28.5
87.5°	9.0	10.5	9.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)