

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: P219983

Luminaire Tested: **R3-WD-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219983
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-2L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

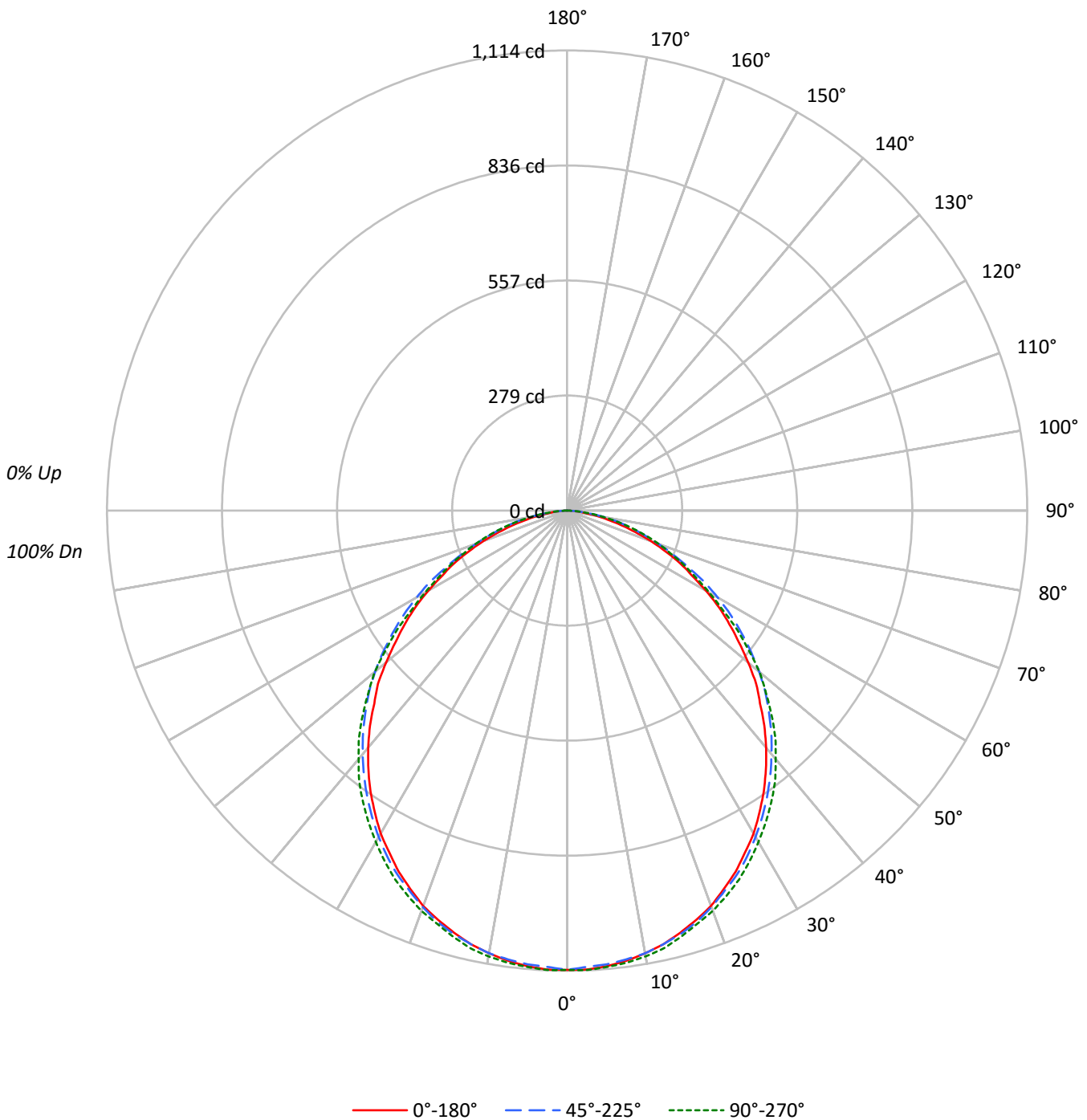
Lumens per Lamp: N/A
Luminaire Lumens: 2876.5 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2992	2992	2992
5°	2991	2978	2995
10°	2973	2973	2995
15°	2947	2956	2974
20°	2916	2926	2953
25°	2864	2888	2925
30°	2805	2835	2879
35°	2727	2773	2830
40°	2632	2704	2760
45°	2514	2628	2664
50°	2394	2539	2546
55°	2251	2415	2356
60°	2089	2267	2140
65°	1926	2047	1987
70°	1695	1844	1857
75°	1399	1664	1680
80°	1080	1399	1375
85°	735	979	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.7
10°-20°	299.8	10.4
20°-30°	448.7	15.6
30°-40°	528.7	18.4
40°-50°	529.0	18.4
50°-60°	449.2	15.6
60°-70°	313.6	10.9
70°-80°	165.1	5.7
80°-90°	37.3	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°	853.7	29.7
0°-40°	1382.4	48.1
0°-60°	2360.6	82.1
0°-90°	2876.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1107	1107	1102	1109	1109	105
15°	1058	1061	1061	1068	1068	298
25°	965	969	972	985	985	444
35°	830	835	844	858	862	518
45°	660	672	691	702	700	511
55°	480	497	515	512	502	429
65°	302	318	322	315	312	297
75°	135	152	160	162	162	145
85°	24	30	32	30	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.9	1111.9	1111.9	1111.9	<i>1111.9</i>
2.5°	<i>1111.9</i>	<i>1110.3</i>	<i>1105.5</i>	<i>1111.9</i>	<i>1113.5</i>
5°	1107.1	1107.1	1102.4	1108.7	<i>1108.7</i>
7.5°	1099.2	1100.8	1096.0	1104.0	<i>1104.0</i>
10°	1088.1	1089.7	1088.1	1096.0	<i>1096.0</i>
12.5°	1075.5	1077.0	1075.5	1083.4	<i>1085.0</i>
15°	1058.0	1061.2	1061.2	1067.5	<i>1067.5</i>
17.5°	1039.0	1042.2	1043.8	1048.5	<i>1048.5</i>
20°	1018.4	1021.6	1021.6	1029.5	<i>1031.1</i>
22.5°	991.5	996.3	996.3	1008.9	<i>1008.9</i>
25°	964.6	969.3	972.5	985.2	<i>985.2</i>
27.5°	932.9	937.7	944.0	956.7	<i>956.7</i>
30°	902.8	904.4	912.3	921.8	<i>926.6</i>
32.5°	866.4	871.1	879.1	893.3	<i>894.9</i>
35°	830.0	834.7	844.2	858.5	<i>861.6</i>
37.5°	790.4	795.1	807.8	825.2	<i>826.8</i>
40°	749.2	753.9	769.8	787.2	<i>785.6</i>
42.5°	706.4	712.7	731.8	744.4	<i>746.0</i>
45°	660.5	671.6	690.6	701.7	<i>700.1</i>
47.5°	620.9	628.8	651.0	655.7	<i>652.6</i>
50°	571.8	586.0	606.6	609.8	<i>608.2</i>
52.5°	524.3	538.5	560.7	560.7	<i>552.8</i>
55°	479.9	497.3	514.8	511.6	<i>502.1</i>
57.5°	435.6	449.8	468.8	459.3	<i>445.1</i>
60°	388.1	405.5	421.3	405.5	<i>397.6</i>
62.5°	340.5	364.3	373.8	356.4	<i>351.6</i>
65°	302.5	318.4	321.5	315.2	<i>312.0</i>
67.5°	256.6	277.2	277.2	274.0	<i>270.8</i>
70°	215.4	232.8	234.4	236.0	<i>236.0</i>
72.5°	172.6	193.2	194.8	199.6	<i>198.0</i>
75°	134.6	152.1	160.0	161.6	<i>161.6</i>
77.5°	99.8	114.0	125.1	125.1	<i>123.5</i>
80°	69.7	82.4	90.3	90.3	<i>88.7</i>
82.5°	42.8	53.9	60.2	58.6	<i>58.6</i>
85°	23.8	30.1	31.7	30.1	<i>30.1</i>
87.5°	9.5	11.1	9.5	6.3	<i>6.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)