

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: P220230

Luminaire Tested: **R3-WD-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-1L40-LD5-UNV-24  
Description: CLASS R3 2X4 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**

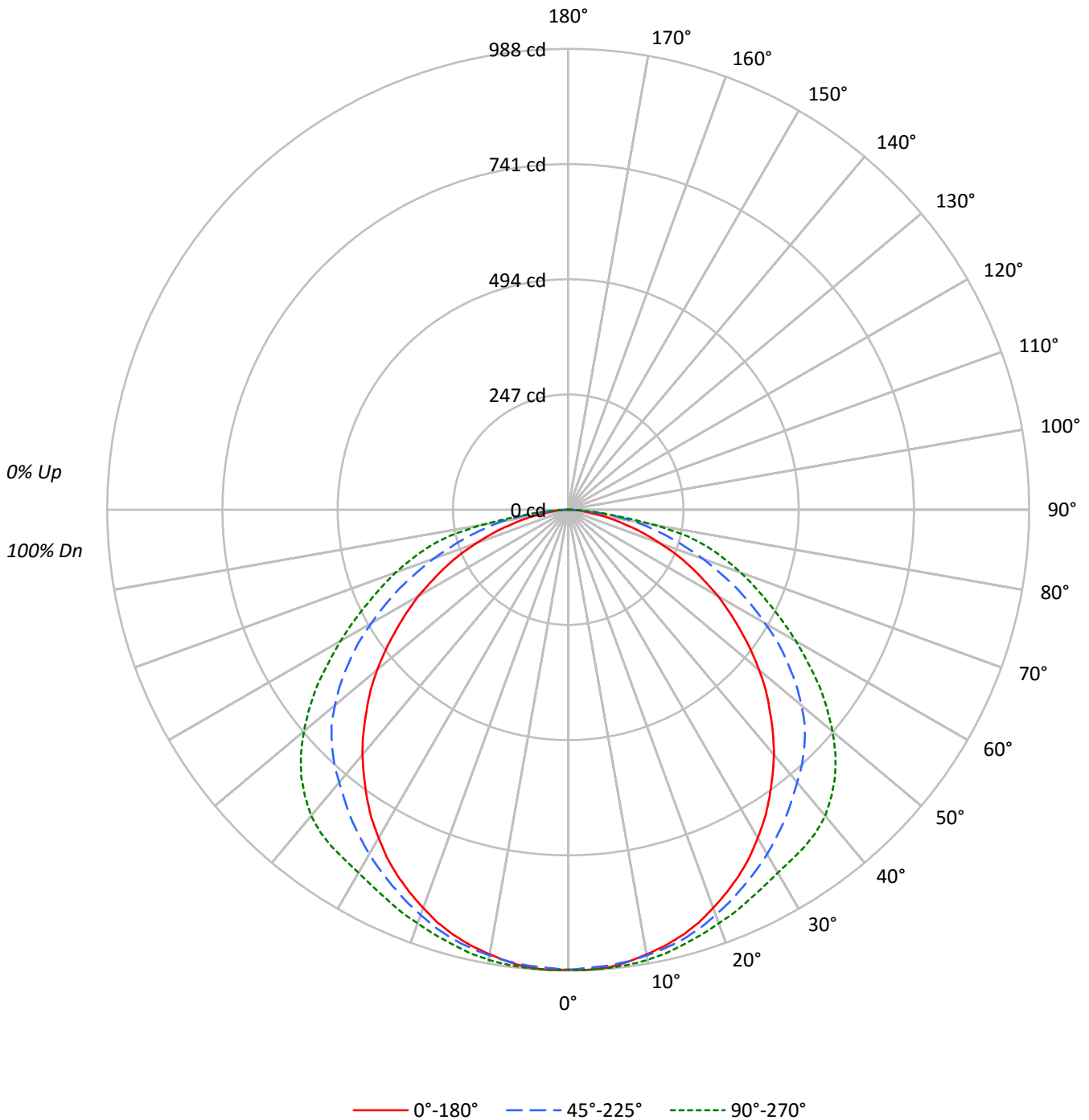
Lumens per Lamp: N/A  
Luminaire Lumens: 3017.3 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.9  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1327	1327	1327
5°	1331	1325	1332
10°	1323	1326	1339
15°	1316	1328	1343
20°	1301	1324	1351
25°	1285	1322	1368
30°	1262	1325	1396
35°	1236	1331	1450
40°	1205	1340	1505
45°	1163	1362	1539
50°	1118	1367	1548
55°	1058	1349	1539
60°	998	1311	1516
65°	922	1266	1507
70°	820	1207	1547
75°	695	1144	1611
80°	546	1110	1440
85°	395	743	824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.1
10°-20°	269.4	8.9
20°-30°	412.0	13.7
30°-40°	509.5	16.9
40°-50°	548.6	18.2
50°-60°	503.6	16.7
60°-70°	386.6	12.8
70°-80°	235.3	7.8
80°-90°	58.7	1.9
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°	775.0	25.7
0°-40°	1284.4	42.6
0°-60°	2336.7	77.4
0°-90°	3017.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3017.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	985	983	981	985	986	93
15°	945	947	953	963	964	266
25°	866	875	890	915	921	399
35°	752	766	810	861	883	470
45°	611	637	716	786	809	472
55°	451	487	575	637	656	404
65°	290	328	398	454	473	286
75°	134	168	220	284	310	143
85°	26	41	48	50	53	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	986.4	986.4	986.4	986.4	986.4
2.5°	987.5	986.4	983.2	986.4	987.5
5°	985.3	983.2	981.0	985.3	986.4
7.5°	977.8	977.8	976.8	983.2	984.2
10°	968.2	970.4	970.4	978.9	980.0
12.5°	957.5	959.7	962.9	972.5	973.6
15°	944.7	946.8	953.3	962.9	963.9
17.5°	928.7	932.9	940.4	951.1	954.3
20°	908.4	915.8	924.4	940.4	943.6
22.5°	888.1	896.6	908.4	926.5	934.0
25°	865.6	875.2	890.2	914.8	921.2
27.5°	841.0	850.7	872.0	899.8	909.4
30°	812.2	822.9	852.8	884.9	898.8
32.5°	784.4	795.1	831.4	872.0	890.2
35°	752.3	766.2	810.1	861.3	882.7
37.5°	719.2	734.2	786.5	850.7	872.0
40°	686.1	703.2	763.0	835.7	857.1
42.5°	649.8	670.1	741.7	812.2	834.6
45°	611.3	636.9	716.0	785.5	809.0
47.5°	574.9	601.7	688.2	756.6	776.9
50°	534.3	565.3	653.0	720.3	739.5
52.5°	492.7	529.0	615.6	682.9	698.9
55°	451.0	487.3	574.9	636.9	656.2
57.5°	410.4	452.0	534.3	593.1	608.1
60°	370.8	410.4	487.3	545.0	563.2
62.5°	328.1	370.8	442.4	500.1	518.3
65°	289.6	328.1	397.5	454.2	473.4
67.5°	250.1	286.4	350.5	408.2	432.8
70°	208.4	244.7	306.7	367.6	393.3
72.5°	171.0	204.1	261.8	327.0	351.6
75°	133.6	167.8	220.1	284.3	309.9
77.5°	100.5	131.4	180.6	241.5	261.8
80°	70.5	99.4	143.2	180.6	185.9
82.5°	46.0	69.5	94.0	104.7	105.8
85°	25.6	40.6	48.1	50.2	53.4
87.5°	10.7	13.9	18.2	19.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)