

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: P220239

Luminaire Tested: **R3-WN-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-1L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2995.8 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

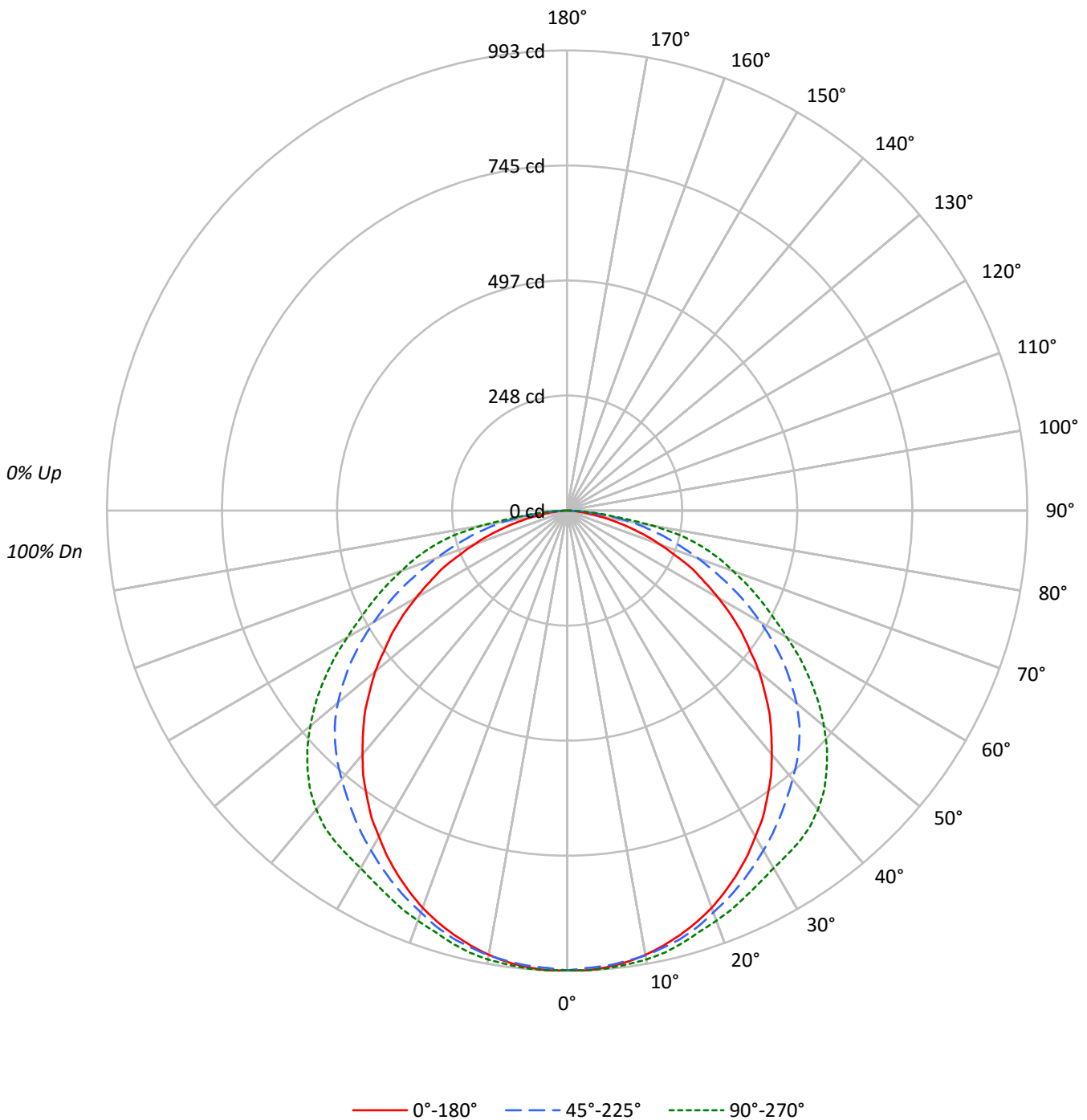
Input Watts (W): 22.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
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°	1335	1335	1335
5°	1336	1331	1340
10°	1330	1332	1344
15°	1319	1331	1345
20°	1306	1321	1349
25°	1286	1318	1360
30°	1262	1316	1384
35°	1237	1319	1433
40°	1206	1330	1479
45°	1175	1348	1507
50°	1132	1352	1515
55°	1080	1336	1506
60°	1013	1296	1475
65°	949	1245	1472
70°	839	1180	1498
75°	705	1130	1570
80°	538	1075	1447
85°	363	787	962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	3.1
10°-20°	269.8	9.0
20°-30°	410.8	13.7
30°-40°	506.2	16.9
40°-50°	543.5	18.1
50°-60°	498.9	16.7
60°-70°	381.6	12.7
70°-80°	231.4	7.7
80°-90°	59.4	2.0
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°	774.7	25.9
0°-40°	1280.9	42.8
0°-60°	2323.3	77.6
0°-90°	2995.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	989	988	986	991	992	94
15°	947	950	955	964	965	267
25°	866	875	888	910	916	399
35°	753	765	803	852	872	471
45°	617	637	708	772	792	475
55°	460	491	570	625	642	411
65°	298	328	391	443	462	292
75°	136	165	217	278	302	146
85°	24	40	51	58	62	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.9	991.9	991.9	991.9	991.9
2.5°	993.0	991.9	987.9	991.9	993.0
5°	988.9	987.9	985.8	990.9	991.9
7.5°	982.8	982.8	980.7	987.9	987.9
10°	973.6	973.6	974.6	981.7	983.8
12.5°	961.3	963.4	965.4	975.6	976.6
15°	947.0	950.1	955.2	964.4	965.4
17.5°	930.7	934.8	940.9	950.1	952.1
20°	912.3	916.4	922.6	937.9	941.9
22.5°	889.9	898.1	906.2	924.6	930.7
25°	866.4	874.6	887.9	910.3	916.4
27.5°	840.9	849.1	867.4	894.0	903.2
30°	812.3	822.5	847.0	877.6	890.9
32.5°	785.8	795.0	825.6	864.4	881.7
35°	753.1	765.4	803.2	852.1	872.5
37.5°	722.5	734.8	779.7	839.9	860.3
40°	686.8	703.1	757.2	822.5	841.9
42.5°	652.1	670.5	733.8	800.1	820.5
45°	617.4	636.8	708.2	772.5	791.9
47.5°	577.6	601.1	679.7	742.9	760.3
50°	540.9	566.4	646.0	707.2	723.6
52.5°	498.0	529.7	608.2	669.5	684.8
55°	460.3	490.9	569.5	624.6	641.9
57.5°	419.4	453.1	526.6	579.7	597.0
60°	376.6	411.3	481.7	534.8	548.0
62.5°	334.7	374.5	437.8	486.8	503.1
65°	298.0	327.6	390.9	442.9	462.3
67.5°	253.1	285.7	343.9	398.0	421.5
70°	213.3	244.9	300.0	357.2	380.7
72.5°	175.5	203.1	257.2	317.4	343.9
75°	135.7	165.3	217.4	277.6	302.1
77.5°	102.1	129.6	176.6	236.8	254.1
80°	69.4	95.9	138.8	180.6	186.8
82.5°	43.9	66.3	94.9	107.2	107.2
85°	23.5	39.8	51.0	58.2	62.3
87.5°	9.2	13.3	19.4	19.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)