

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: P220121

Luminaire Tested: **R3-WN-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-3L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3129.6 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

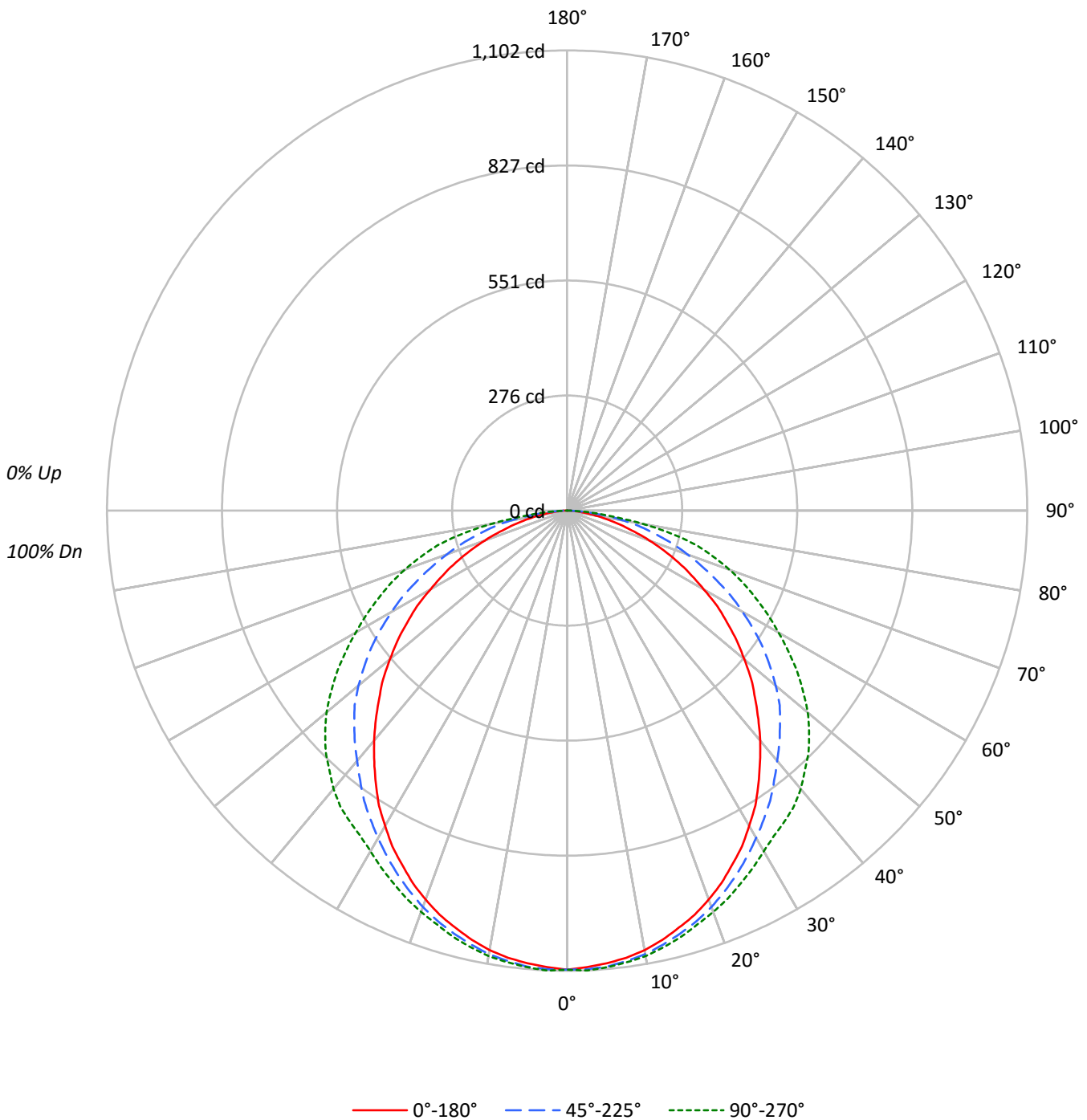
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

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

	0°	45°	90°
0°	2958	2958	2958
5°	2939	2961	2965
10°	2921	2947	2960
15°	2881	2921	2943
20°	2838	2893	2929
25°	2777	2853	2924
30°	2709	2813	2926
35°	2623	2785	2984
40°	2526	2749	3057
45°	2422	2743	3112
50°	2318	2730	3150
55°	2194	2687	3157
60°	2038	2611	3151
65°	1874	2512	3181
70°	1652	2415	3254
75°	1372	2299	3342
80°	1085	2145	2859
85°	738	1522	1914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	3.3
10°-20°	295.4	9.4
20°-30°	442.8	14.2
30°-40°	532.0	17.0
40°-50°	558.6	17.8
50°-60°	509.6	16.3
60°-70°	392.6	12.5
70°-80°	236.2	7.5
80°-90°	58.6	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°	842.1	26.9
0°-40°	1374.2	43.9
0°-60°	2442.3	78.0
0°-90°	3129.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1088	1091	1096	1098	1098	103
15°	1034	1039	1048	1055	1056	292
25°	935	943	961	978	985	431
35°	799	811	848	888	908	499
45°	636	657	721	789	818	492
55°	468	498	573	644	673	418
65°	294	326	394	468	500	291
75°	132	164	221	290	321	142
85°	24	35	49	57	62	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1094.5	1096.1	1099.3	1102.5	1102.5
5°	1088.1	1091.3	1096.1	1097.7	1097.7
7.5°	1080.2	1083.4	1088.1	1091.3	1091.3
10°	1069.0	1070.6	1078.6	1081.8	1083.4
12.5°	1053.1	1057.9	1064.3	1070.6	1070.6
15°	1034.1	1038.8	1048.4	1054.7	1056.3
17.5°	1015.0	1019.7	1030.9	1038.8	1038.8
20°	991.1	997.5	1010.2	1019.7	1022.9
22.5°	965.6	972.0	986.3	999.1	1005.4
25°	935.4	943.4	960.9	978.4	984.7
27.5°	906.8	913.1	933.8	957.7	964.1
30°	871.8	881.3	905.2	932.2	941.8
32.5°	838.4	847.9	876.6	908.4	922.7
35°	798.6	811.3	847.9	887.7	908.4
37.5°	758.8	773.2	814.5	867.0	892.5
40°	719.1	735.0	782.7	847.9	870.2
42.5°	677.7	696.8	752.5	820.9	843.1
45°	636.3	657.0	720.7	789.1	817.7
47.5°	598.2	618.8	690.4	758.8	785.9
50°	553.6	579.1	652.2	725.4	752.5
52.5°	512.3	536.1	612.5	685.7	712.7
55°	467.7	497.9	572.7	644.3	672.9
57.5°	426.3	453.4	529.8	599.7	628.4
60°	378.6	410.4	485.2	555.2	585.4
62.5°	335.7	367.5	442.3	510.7	542.5
65°	294.3	326.1	394.5	467.7	499.5
67.5°	251.4	284.8	350.0	424.8	458.2
70°	210.0	240.2	307.0	380.2	413.6
72.5°	168.6	200.4	264.1	335.7	367.5
75°	132.0	163.9	221.1	289.5	321.4
77.5°	100.2	125.7	181.4	238.6	257.7
80°	70.0	93.9	138.4	176.6	184.5
82.5°	44.5	63.6	90.7	111.4	109.8
85°	23.9	35.0	49.3	57.3	62.0
87.5°	11.1	12.7	15.9	20.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)