

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: P220115

Luminaire Tested: **R3-WN-3L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220115  
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-3L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3033.6 lumens  
Efficiency: N/A  
Efficacy: 118.5 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

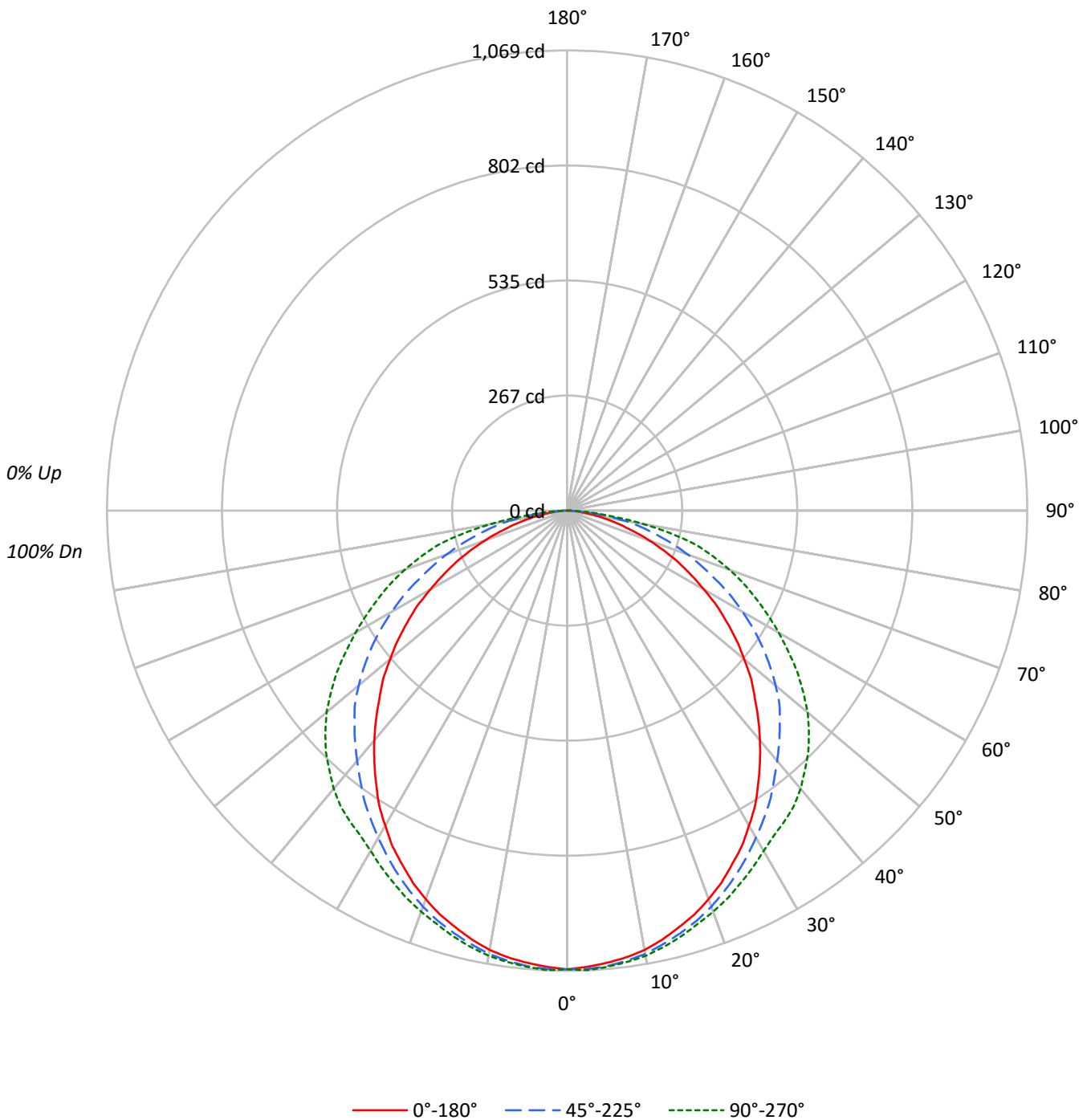
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2868	2868	2868
5°	2849	2870	2874
10°	2832	2857	2869
15°	2792	2831	2852
20°	2751	2804	2839
25°	2692	2765	2834
30°	2626	2726	2837
35°	2543	2700	2893
40°	2448	2665	2963
45°	2347	2659	3016
50°	2246	2647	3054
55°	2127	2604	3060
60°	1975	2531	3054
65°	1817	2435	3083
70°	1602	2341	3154
75°	1331	2228	3239
80°	1052	2080	2772
85°	713	1476	1856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	3.3
10°-20°	286.3	9.4
20°-30°	429.3	14.2
30°-40°	515.7	17.0
40°-50°	541.4	17.8
50°-60°	493.9	16.3
60°-70°	380.5	12.5
70°-80°	228.9	7.5
80°-90°	56.8	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°	816.3	26.9
0°-40°	1332.0	43.9
0°-60°	2367.4	78.0
0°-90°	3033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1055	1058	1062	1064	1064	100
15°	1002	1007	1016	1022	1024	283
25°	907	914	931	948	954	418
35°	774	786	822	860	880	484
45°	617	637	699	765	793	477
55°	453	483	555	624	652	406
65°	285	316	382	453	484	282
75°	128	159	214	281	312	138
85°	23	34	48	56	60	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1065.6	1065.6	1065.6	1065.6	1065.6
2.5°	1060.9	1062.5	1065.6	1068.7	1068.7
5°	1054.8	1057.9	1062.5	1064.0	1064.0
7.5°	1047.1	1050.1	1054.8	1057.9	1057.9
10°	1036.3	1037.8	1045.5	1048.6	1050.1
12.5°	1020.8	1025.5	1031.6	1037.8	1037.8
15°	1002.3	1007.0	1016.2	1022.4	1023.9
17.5°	983.8	988.5	999.3	1007.0	1007.0
20°	960.7	966.9	979.2	988.5	991.5
22.5°	936.0	942.2	956.1	968.4	974.6
25°	906.7	914.4	931.4	948.4	954.5
27.5°	879.0	885.1	905.2	928.3	934.5
30°	845.1	854.3	877.4	903.7	912.9
32.5°	812.7	821.9	849.7	880.5	894.4
35°	774.1	786.5	821.9	860.5	880.5
37.5°	735.6	749.4	789.5	840.4	865.1
40°	697.0	712.4	758.7	821.9	843.5
42.5°	656.9	675.4	729.4	795.7	817.3
45°	616.8	636.9	698.6	764.9	792.6
47.5°	579.8	599.9	669.3	735.6	761.8
50°	536.6	561.3	632.2	703.2	729.4
52.5°	496.5	519.7	593.7	664.6	690.8
55°	453.4	482.7	555.1	624.5	652.3
57.5°	413.3	439.5	513.5	581.4	609.1
60°	367.0	397.9	470.3	538.2	567.5
62.5°	325.4	356.2	428.7	495.0	525.8
65°	285.3	316.1	382.4	453.4	484.2
67.5°	243.6	276.0	339.3	411.7	444.1
70°	203.6	232.9	297.6	368.6	400.9
72.5°	163.5	194.3	256.0	325.4	356.2
75°	128.0	158.8	214.3	280.7	311.5
77.5°	97.2	121.8	175.8	231.3	249.8
80°	67.9	91.0	134.2	171.2	178.9
82.5°	43.2	61.7	87.9	107.9	106.4
85°	23.1	33.9	47.8	55.5	60.1
87.5°	10.8	12.3	15.4	20.0	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)