

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: P220091

Luminaire Tested: **R3-WD-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-2L30-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2290.8 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

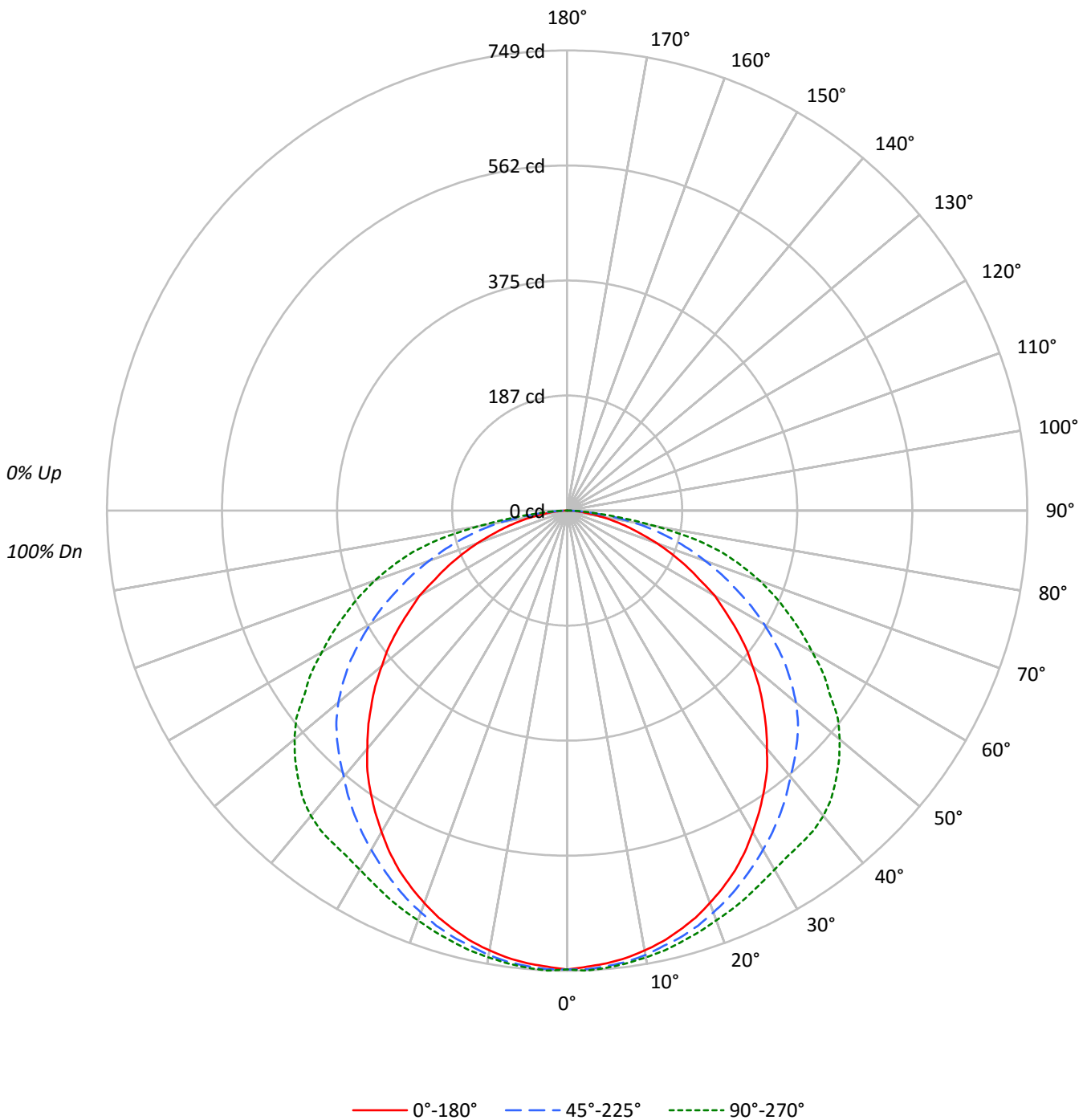
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2010	2010	2010
5°	1998	2011	2018
10°	1987	2007	2017
15°	1970	2001	2022
20°	1947	1993	2032
25°	1919	1985	2059
30°	1877	1981	2097
35°	1833	1984	2176
40°	1777	1987	2279
45°	1717	2015	2355
50°	1649	2035	2425
55°	1574	2029	2449
60°	1492	1993	2482
65°	1361	1931	2532
70°	1223	1877	2621
75°	1047	1822	2701
80°	848	1695	2253
85°	614	1074	1306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.7	3.1
10°-20°	202.5	8.8
20°-30°	308.7	13.5
30°-40°	380.2	16.6
40°-50°	410.9	17.9
50°-60°	384.5	16.8
60°-70°	302.3	13.2
70°-80°	186.4	8.1
80°-90°	44.5	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°	582.0	25.4
0°-40°	962.2	42.0
0°-60°	1757.6	76.7
0°-90°	2290.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	740	742	744	746	747	70
15°	707	711	718	725	726	199
25°	646	652	669	687	694	297
35°	558	569	604	644	662	349
45°	451	472	530	595	619	348
55°	336	365	432	498	522	300
65°	214	242	303	368	398	212
75°	101	127	175	232	260	108
85°	20	27	35	44	42	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	743.2	744.5	747.0	748.2	749.4
5°	739.5	742.0	744.5	745.7	747.0
7.5°	734.5	737.0	740.7	743.2	743.2
10°	727.1	729.6	734.5	738.3	738.3
12.5°	718.4	720.9	725.8	732.0	733.3
15°	707.2	710.9	718.4	724.6	725.8
17.5°	694.8	698.5	708.4	715.9	718.4
20°	679.8	684.8	696.0	707.2	709.7
22.5°	663.7	669.9	683.6	697.2	702.2
25°	646.3	652.5	668.7	687.3	693.5
27.5°	626.4	632.6	653.7	676.1	683.6
30°	604.0	614.0	637.6	663.7	674.9
32.5°	581.7	591.6	621.4	653.7	667.4
35°	558.0	569.2	604.0	643.8	662.4
37.5°	534.4	546.9	585.4	635.1	657.5
40°	505.8	522.0	565.5	626.4	648.8
42.5°	479.7	497.1	548.1	612.7	636.3
45°	451.2	472.3	529.5	595.3	618.9
47.5°	423.8	444.9	509.6	575.4	600.3
50°	394.0	418.8	486.0	553.1	579.2
52.5°	366.6	391.5	459.9	527.0	555.6
55°	335.6	365.4	432.5	498.4	522.0
57.5°	304.5	331.8	401.4	467.3	494.7
60°	277.2	302.0	370.4	435.0	461.1
62.5°	242.4	272.2	338.1	401.4	430.0
65°	213.8	242.4	303.3	367.9	397.7
67.5°	183.9	213.8	272.2	335.6	366.6
70°	155.4	182.7	238.6	302.0	333.1
72.5°	125.5	152.9	207.6	268.5	297.0
75°	100.7	126.8	175.2	232.4	259.8
77.5°	77.1	99.4	142.9	192.6	210.0
80°	54.7	73.3	109.4	136.7	145.4
82.5°	34.8	49.7	68.4	84.5	84.5
85°	19.9	27.3	34.8	43.5	42.3
87.5°	8.7	9.9	11.2	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)