

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: P35855

Luminaire Tested: **R3-WD-1L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35855  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-1L30-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**

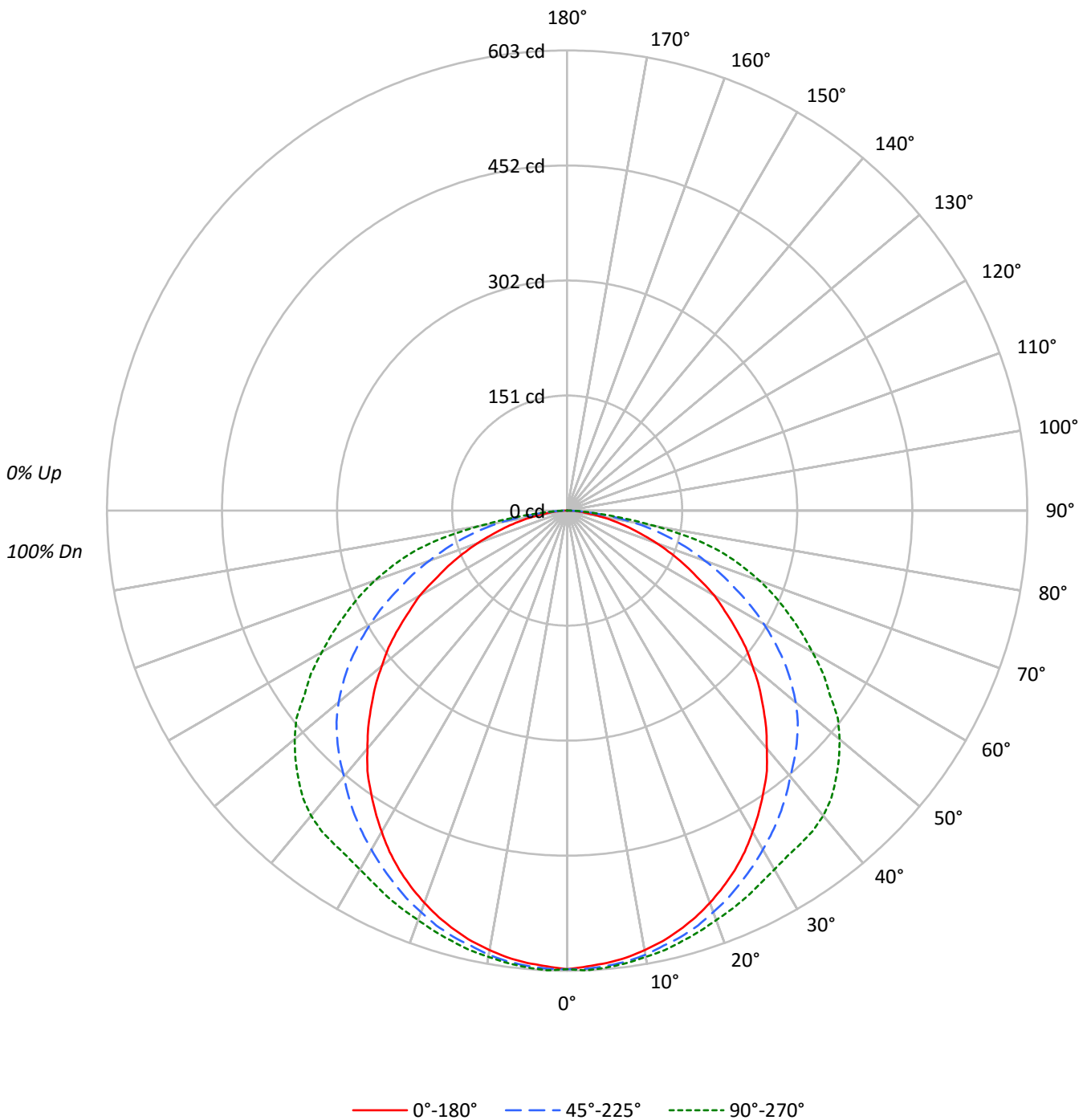
Lumens per Lamp: N/A  
Luminaire Lumens: 1843.2 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): 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°	1617	1617	1617
5°	1607	1618	1623
10°	1599	1615	1623
15°	1585	1610	1627
20°	1566	1604	1635
25°	1544	1597	1657
30°	1510	1594	1687
35°	1475	1597	1751
40°	1430	1598	1834
45°	1381	1621	1895
50°	1327	1637	1951
55°	1267	1633	1970
60°	1200	1604	1997
65°	1095	1554	2038
70°	983	1511	2109
75°	842	1466	2173
80°	682	1364	1813
85°	494	865	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	3.1
10°-20°	163.0	8.8
20°-30°	248.4	13.5
30°-40°	305.9	16.6
40°-50°	330.6	17.9
50°-60°	309.4	16.8
60°-70°	243.2	13.2
70°-80°	150.0	8.1
80°-90°	35.8	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°	468.2	25.4
0°-40°	774.2	42.0
0°-60°	1414.1	76.7
0°-90°	1843.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1843.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	601	601	601	601	601	
5°	595	597	599	600	601	56
15°	569	572	578	583	584	160
25°	520	525	538	553	558	239
35°	449	458	486	518	533	281
45°	363	380	426	479	498	280
55°	270	294	348	401	420	241
65°	172	195	244	296	320	170
75°	81	102	141	187	209	87
85°	16	22	28	35	34	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	601	601	601	601	601
2.5°	598	599	601	602	603
5°	595	597	599	600	601
7.5°	591	593	596	598	598
10°	585	587	591	594	594
12.5°	578	580	584	589	590
15°	569	572	578	583	584
17.5°	559	562	570	576	578
20°	547	551	560	569	571
22.5°	534	539	550	561	565
25°	520	525	538	553	558
27.5°	504	509	526	544	550
30°	486	494	513	534	543
32.5°	468	476	500	526	537
35°	449	458	486	518	533
37.5°	430	440	471	511	529
40°	407	420	455	504	522
42.5°	386	400	441	493	512
45°	363	380	426	479	498
47.5°	341	358	410	463	483
50°	317	337	391	445	466
52.5°	295	315	370	424	447
55°	270	294	348	401	420
57.5°	245	267	323	376	398
60°	223	243	298	350	371
62.5°	195	219	272	323	346
65°	172	195	244	296	320
67.5°	148	172	219	270	295
70°	125	147	192	243	268
72.5°	101	123	167	216	239
75°	81	102	141	187	209
77.5°	62	80	115	155	169
80°	44	59	88	110	117
82.5°	28	40	55	68	68
85°	16	22	28	35	34
87.5°	7	8	9	11	11
90°	0	0	0	0	0

(END OF REPORT)