

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: P35860

Luminaire Tested: **Z3-WN-1L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35860  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-1L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1933.2 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

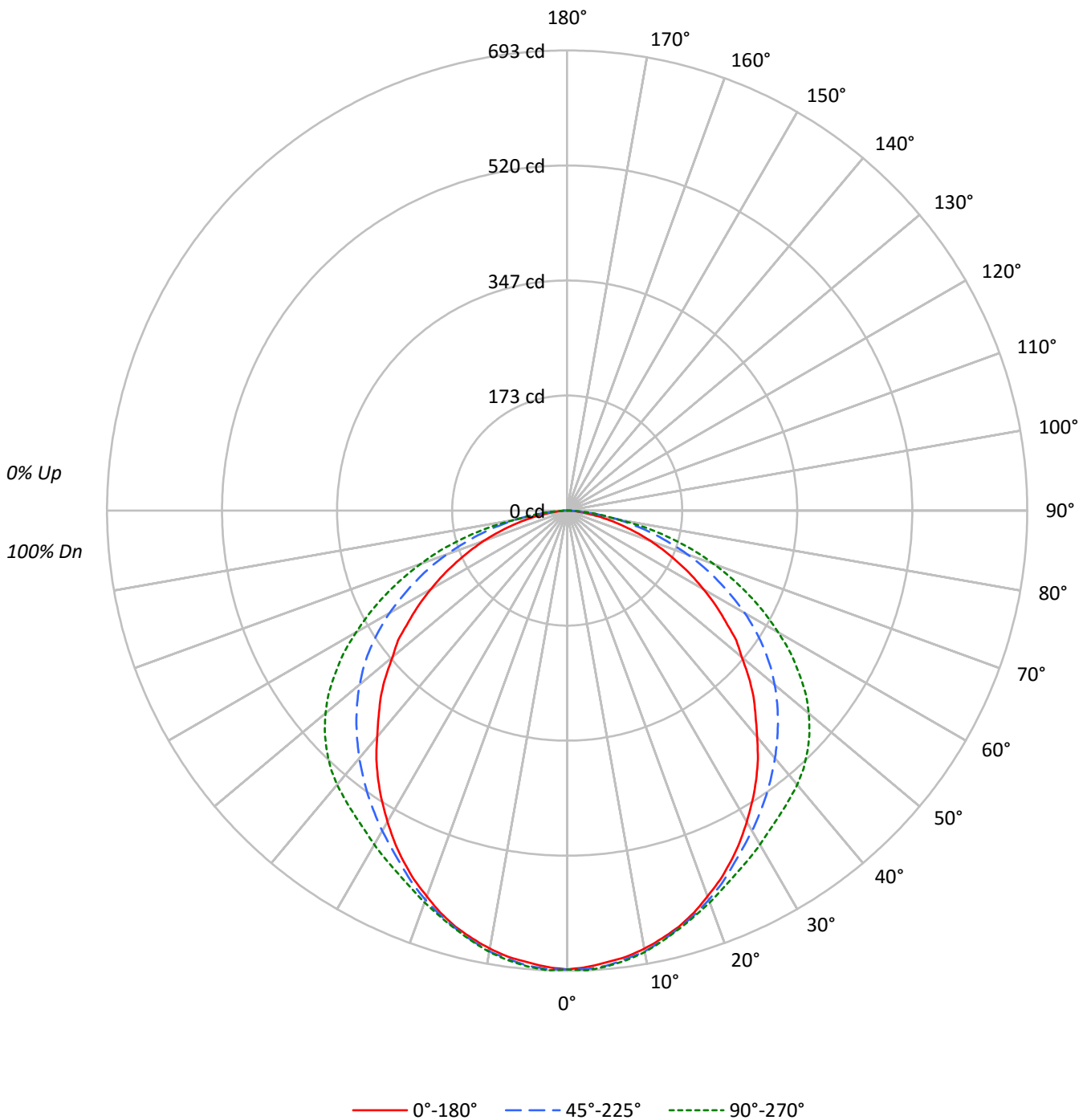
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	1859	1859	1859
5°	1845	1858	1861
10°	1831	1842	1844
15°	1808	1814	1816
20°	1770	1787	1798
25°	1731	1752	1790
30°	1681	1731	1805
35°	1629	1718	1836
40°	1563	1711	1893
45°	1511	1709	1948
50°	1436	1708	1989
55°	1365	1698	1999
60°	1276	1663	1975
65°	1172	1598	1929
70°	1054	1519	1849
75°	884	1393	1695
80°	682	1224	1240
85°	494	834	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	183.5	9.5
20°-30°	273.0	14.1
30°-40°	328.8	17.0
40°-50°	348.2	18.0
50°-60°	321.9	16.7
60°-70°	245.2	12.7
70°-80°	136.5	7.1
80°-90°	31.1	1.6
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°	521.6	27.0
0°-40°	850.4	44.0
0°-60°	1520.5	78.7
0°-90°	1933.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	683	685	688	689	689	65
15°	649	650	651	652	652	183
25°	583	584	590	598	603	268
35°	496	501	523	549	559	310
45°	397	409	449	494	512	305
55°	291	315	362	409	426	261
65°	184	208	251	289	303	183
75°	85	104	134	156	163	91
85°	16	22	27	29	29	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	691	691	691	691	691
2.5°	688	689	691	693	693
5°	683	685	688	689	689
7.5°	678	679	681	683	683
10°	670	671	674	675	675
12.5°	660	661	663	664	664
15°	649	650	651	652	652
17.5°	635	636	638	640	640
20°	618	621	624	626	628
22.5°	602	603	608	613	615
25°	583	584	590	598	603
27.5°	563	566	573	587	592
30°	541	545	557	574	581
32.5°	519	523	540	561	569
35°	496	501	523	549	559
37.5°	472	478	505	536	549
40°	445	455	487	523	539
42.5°	420	432	468	509	527
45°	397	409	449	494	512
47.5°	371	386	429	477	495
50°	343	362	408	457	475
52.5°	321	338	386	435	453
55°	291	315	362	409	426
57.5°	265	287	336	382	399
60°	237	260	309	352	367
62.5°	211	233	280	322	336
65°	184	208	251	289	303
67.5°	158	181	223	258	269
70°	134	154	193	222	235
72.5°	108	128	162	189	200
75°	85	104	134	156	163
77.5°	63	81	105	122	125
80°	44	59	79	82	80
82.5°	28	39	50	51	51
85°	16	22	27	29	29
87.5°	6	8	10	10	10
90°	0	0	0	0	0

(END OF REPORT)