

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: P35857

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35857
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-1L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

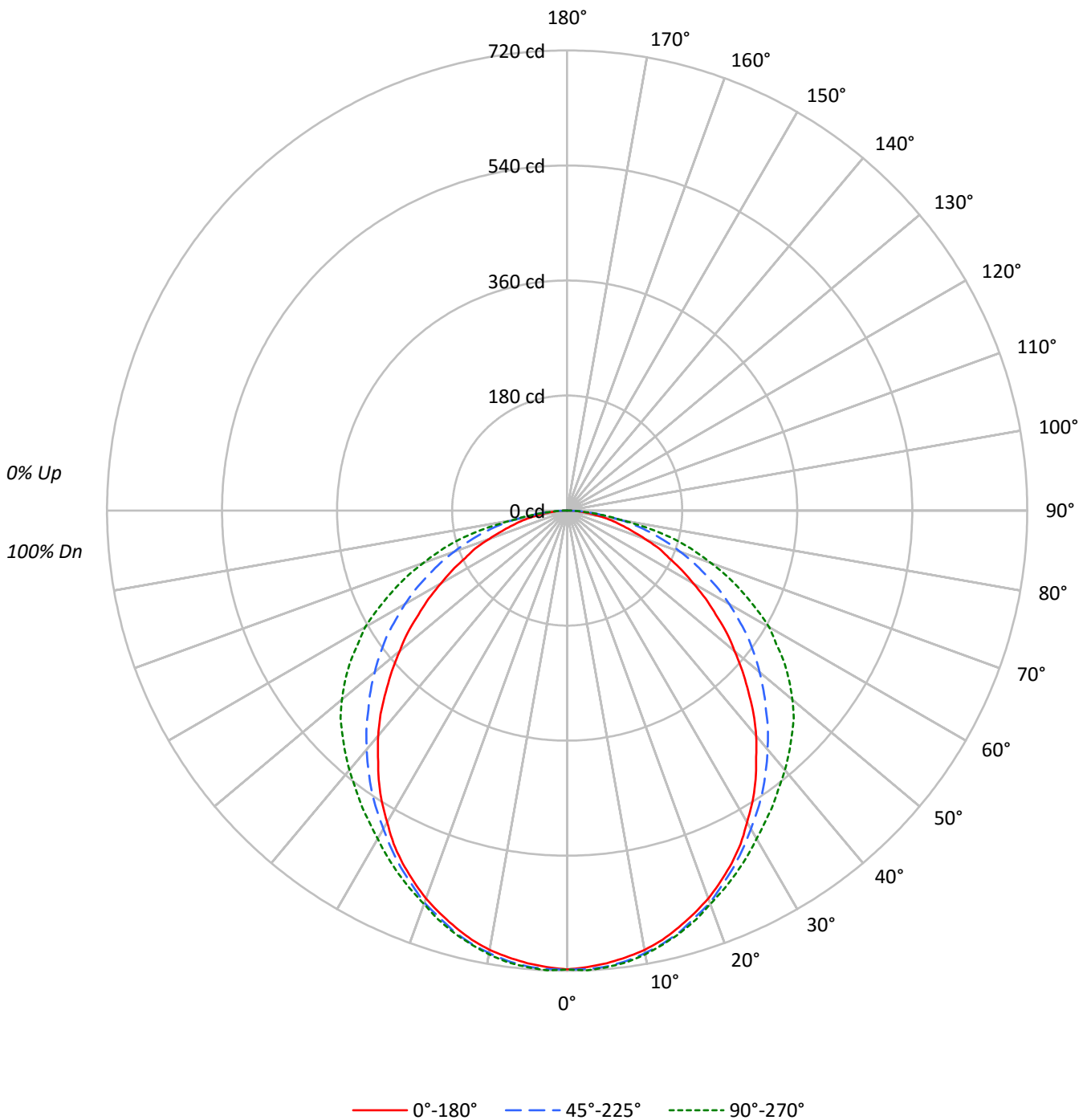
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1932	1932	1932
5°	1921	1934	1937
10°	1907	1921	1926
15°	1880	1900	1906
20°	1850	1870	1876
25°	1808	1829	1859
30°	1749	1787	1843
35°	1689	1754	1846
40°	1616	1714	1862
45°	1526	1674	1891
50°	1432	1645	1926
55°	1332	1619	1947
60°	1227	1577	1964
65°	1121	1528	1929
70°	1023	1479	1880
75°	915	1424	1820
80°	806	1333	1364
85°	710	1050	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.5
10°-20°	191.8	9.8
20°-30°	284.1	14.6
30°-40°	334.9	17.2
40°-50°	343.4	17.6
50°-60°	310.5	15.9
60°-70°	238.7	12.2
70°-80°	141.5	7.3
80°-90°	36.8	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°	543.7	27.9
0°-40°	878.6	45.1
0°-60°	1532.5	78.6
0°-90°	1949.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	711	713	716	717	717	67
15°	675	677	682	684	684	190
25°	609	611	616	623	626	280
35°	514	517	534	553	562	321
45°	401	409	440	480	497	310
55°	284	304	345	393	415	255
65°	176	198	240	286	303	177
75°	88	105	137	166	175	94
85°	23	28	34	36	33	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718	718	718	718	718
2.5°	715	716	718	720	720
5°	711	713	716	717	717
7.5°	705	707	711	712	713
10°	698	699	703	705	705
12.5°	688	690	694	696	695
15°	675	677	682	684	684
17.5°	661	663	667	670	671
20°	646	647	653	655	655
22.5°	628	631	634	640	641
25°	609	611	616	623	626
27.5°	588	589	596	607	610
30°	563	567	575	589	593
32.5°	540	543	555	571	577
35°	514	517	534	553	562
37.5°	486	490	511	534	545
40°	460	465	488	517	530
42.5°	432	437	465	498	514
45°	401	409	440	480	497
47.5°	372	382	417	461	481
50°	342	356	393	441	460
52.5°	315	328	369	418	438
55°	284	304	345	393	415
57.5°	257	275	318	369	388
60°	228	248	293	342	365
62.5°	203	222	268	315	334
65°	176	198	240	286	303
67.5°	156	171	215	258	273
70°	130	148	188	227	239
72.5°	107	126	163	197	208
75°	88	105	137	166	175
77.5°	71	85	113	133	135
80°	52	64	86	91	88
82.5°	37	45	57	60	57
85°	23	28	34	36	33
87.5°	11	11	14	14	12
90°	0	0	0	0	0

(END OF REPORT)