

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: P35875

Luminaire Tested: **Z3-WD-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35875
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-1L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1772.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

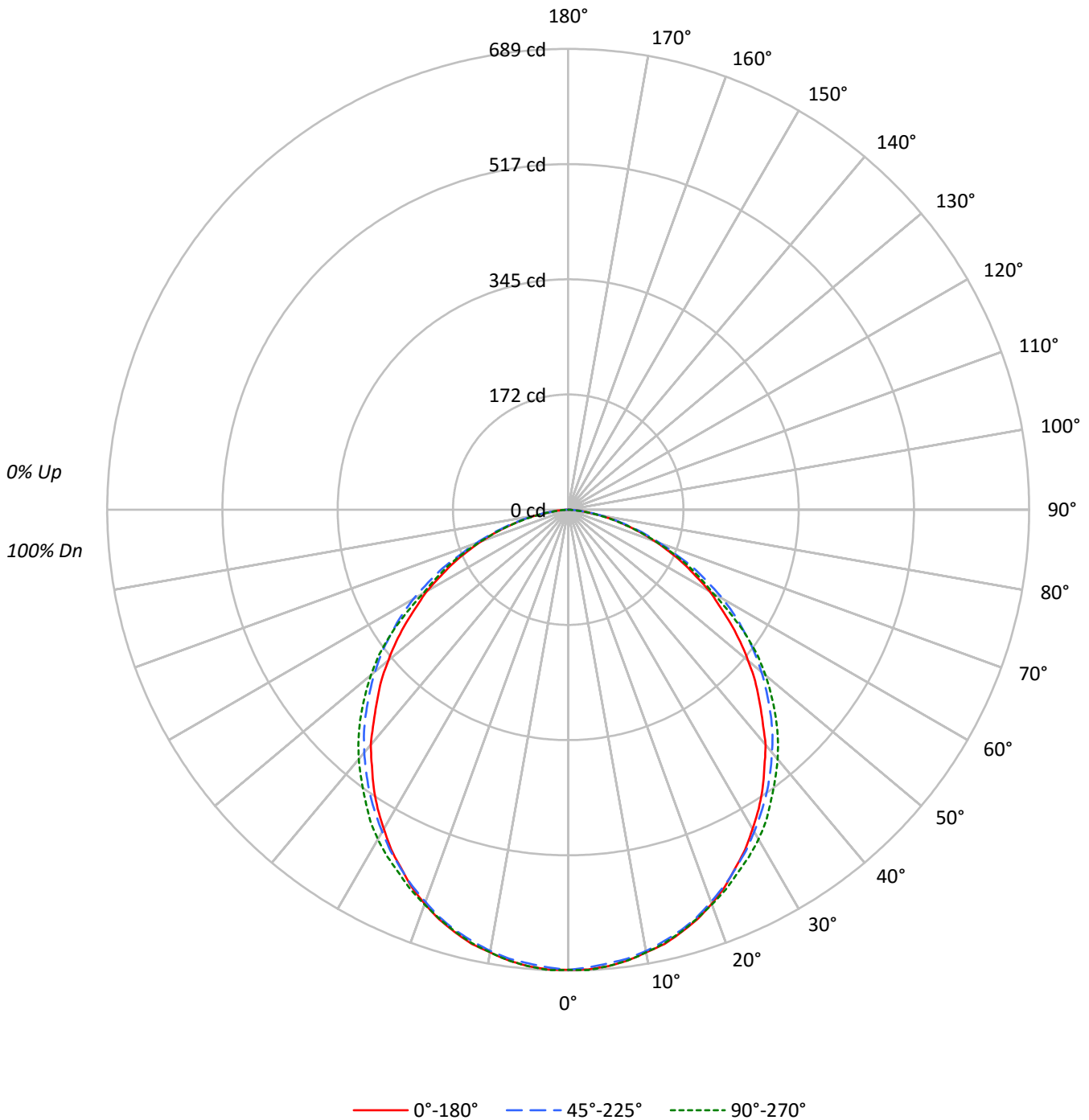
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1851	1851	1851
5°	1850	1840	1850
10°	1836	1831	1836
15°	1822	1814	1819
20°	1796	1787	1798
25°	1755	1758	1779
30°	1712	1728	1768
35°	1666	1698	1738
40°	1612	1665	1711
45°	1537	1625	1671
50°	1469	1578	1612
55°	1389	1515	1515
60°	1313	1437	1345
65°	1210	1318	1254
70°	1086	1149	1102
75°	925	977	925
80°	728	759	713
85°	463	463	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.7
10°-20°	184.0	10.4
20°-30°	273.9	15.4
30°-40°	323.8	18.3
40°-50°	327.0	18.4
50°-60°	282.7	15.9
60°-70°	197.3	11.1
70°-80°	99.5	5.6
80°-90°	19.8	1.1
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°	522.8	29.5
0°-40°	846.6	47.8
0°-60°	1456.2	82.1
0°-90°	1772.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	685	684	681	685	685	65
15°	654	653	651	653	653	184
25°	591	592	592	598	599	273
35°	507	509	517	527	529	317
45°	404	410	427	438	439	312
55°	296	309	323	327	323	265
65°	190	202	207	196	197	188
75°	89	98	94	91	89	96
85°	15	17	15	13	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688	688	688	688	688
2.5°	688	688	685	689	689
5°	685	684	681	685	685
7.5°	680	679	677	680	680
10°	672	672	670	673	672
12.5°	665	664	661	664	664
15°	654	653	651	653	653
17.5°	642	640	639	641	641
20°	627	626	624	628	628
22.5°	611	609	609	613	615
25°	591	592	592	598	599
27.5°	573	573	575	582	585
30°	551	553	556	565	569
32.5°	530	533	537	548	551
35°	507	509	517	527	529
37.5°	482	484	496	507	508
40°	459	460	474	484	487
42.5°	430	437	452	462	464
45°	404	410	427	438	439
47.5°	379	385	402	411	412
50°	351	359	377	384	385
52.5°	324	334	351	357	356
55°	296	309	323	327	323
57.5°	268	283	296	295	286
60°	244	255	267	258	250
62.5°	215	229	236	224	223
65°	190	202	207	196	197
67.5°	163	175	173	170	168
70°	138	150	146	142	140
72.5°	114	124	120	117	114
75°	89	98	94	91	89
77.5°	68	73	71	68	66
80°	47	52	49	46	46
82.5°	29	33	30	28	27
85°	15	17	15	13	12
87.5°	6	6	4	3	3
90°	0	0	0	0	0

(END OF REPORT)