

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: P220187

Luminaire Tested: **Z3-WN-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-1L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.9 lumens
Efficiency: N/A
Efficacy: 126.0 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

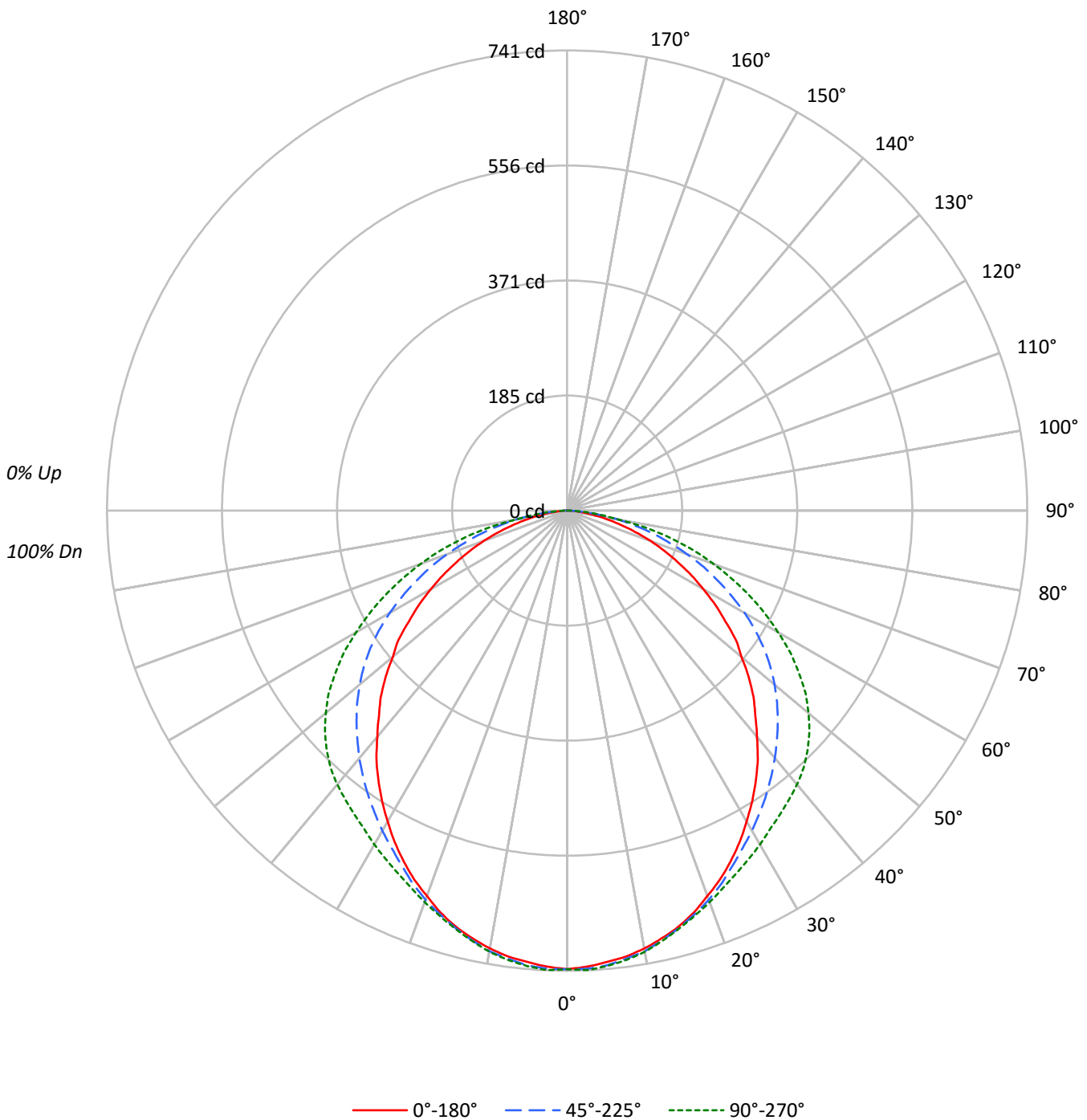
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220187

CATALOG NUMBER: Z3-WN-1L40-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220187

CATALOG NUMBER: Z3-WN-1L40-LD5-UNV-22

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°	1987	1987	1987
5°	1972	1986	1989
10°	1956	1968	1971
15°	1932	1938	1941
20°	1891	1910	1922
25°	1850	1872	1913
30°	1797	1850	1929
35°	1741	1836	1963
40°	1671	1828	2023
45°	1615	1826	2082
50°	1535	1825	2125
55°	1459	1815	2136
60°	1363	1777	2111
65°	1252	1708	2062
70°	1127	1623	1976
75°	944	1489	1811
80°	728	1308	1325
85°	528	892	957



TEST NUMBER: P220187

CATALOG NUMBER: Z3-WN-1L40-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.4
10°-20°	196.1	9.5
20°-30°	291.7	14.1
30°-40°	351.3	17.0
40°-50°	372.1	18.0
50°-60°	344.0	16.7
60°-70°	262.0	12.7
70°-80°	145.8	7.1
80°-90°	33.2	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°	557.4	27.0
0°-40°	908.8	44.0
0°-60°	1624.9	78.7
0°-90°	2065.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	730	732	735	736	736	69
15°	694	695	696	697	697	195
25°	623	624	630	639	644	287
35°	530	535	559	587	597	331
45°	424	437	480	528	547	326
55°	311	337	387	437	455	279
65°	197	222	268	309	324	195
75°	91	111	143	167	174	97
85°	17	24	29	31	31	21
90°	0	0	0	0	0	



TEST NUMBER: P220187

CATALOG NUMBER: Z3-WN-1L40-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.5	738.5	738.5	738.5	738.5
2.5°	735.2	736.3	738.5	740.6	740.6
5°	729.9	732.0	735.2	736.3	736.3
7.5°	724.6	725.6	727.8	729.9	729.9
10°	716.0	717.1	720.3	721.4	721.4
12.5°	705.3	706.4	708.5	709.6	709.6
15°	693.6	694.6	695.7	696.8	696.8
17.5°	678.6	679.7	681.8	683.9	683.9
20°	660.4	663.6	666.9	669.0	671.1
22.5°	643.3	644.4	649.8	655.1	657.2
25°	623.0	624.1	630.5	639.1	644.4
27.5°	601.7	604.9	612.3	627.3	632.7
30°	578.2	582.4	595.3	613.4	620.9
32.5°	554.6	558.9	577.1	599.5	608.1
35°	530.1	535.4	558.9	586.7	597.4
37.5°	504.4	510.8	539.7	572.8	586.7
40°	475.6	486.2	520.4	558.9	576.0
42.5°	448.8	461.7	500.1	544.0	563.2
45°	424.3	437.1	479.8	527.9	547.2
47.5°	396.5	412.5	458.5	509.8	529.0
50°	366.6	386.9	436.0	488.4	507.6
52.5°	343.0	361.2	412.5	464.9	484.1
55°	311.0	336.6	386.9	437.1	455.3
57.5°	283.2	306.7	359.1	408.2	426.4
60°	253.3	277.9	330.2	376.2	392.2
62.5°	225.5	249.0	299.2	344.1	359.1
65°	196.6	222.3	268.2	308.8	323.8
67.5°	168.9	193.4	238.3	275.7	287.5
70°	143.2	164.6	206.3	237.2	251.1
72.5°	115.4	136.8	173.1	202.0	213.7
75°	90.8	111.1	143.2	166.7	174.2
77.5°	67.3	86.6	112.2	130.4	133.6
80°	47.0	63.1	84.4	87.6	85.5
82.5°	29.9	41.7	53.4	54.5	54.5
85°	17.1	23.5	28.9	31.0	31.0
87.5°	6.4	8.5	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)