

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: P220188

Luminaire Tested: **Z3-WN-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220188
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-2L40-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: 2567.7 lumens
Efficiency: N/A
Efficacy: 123.4 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

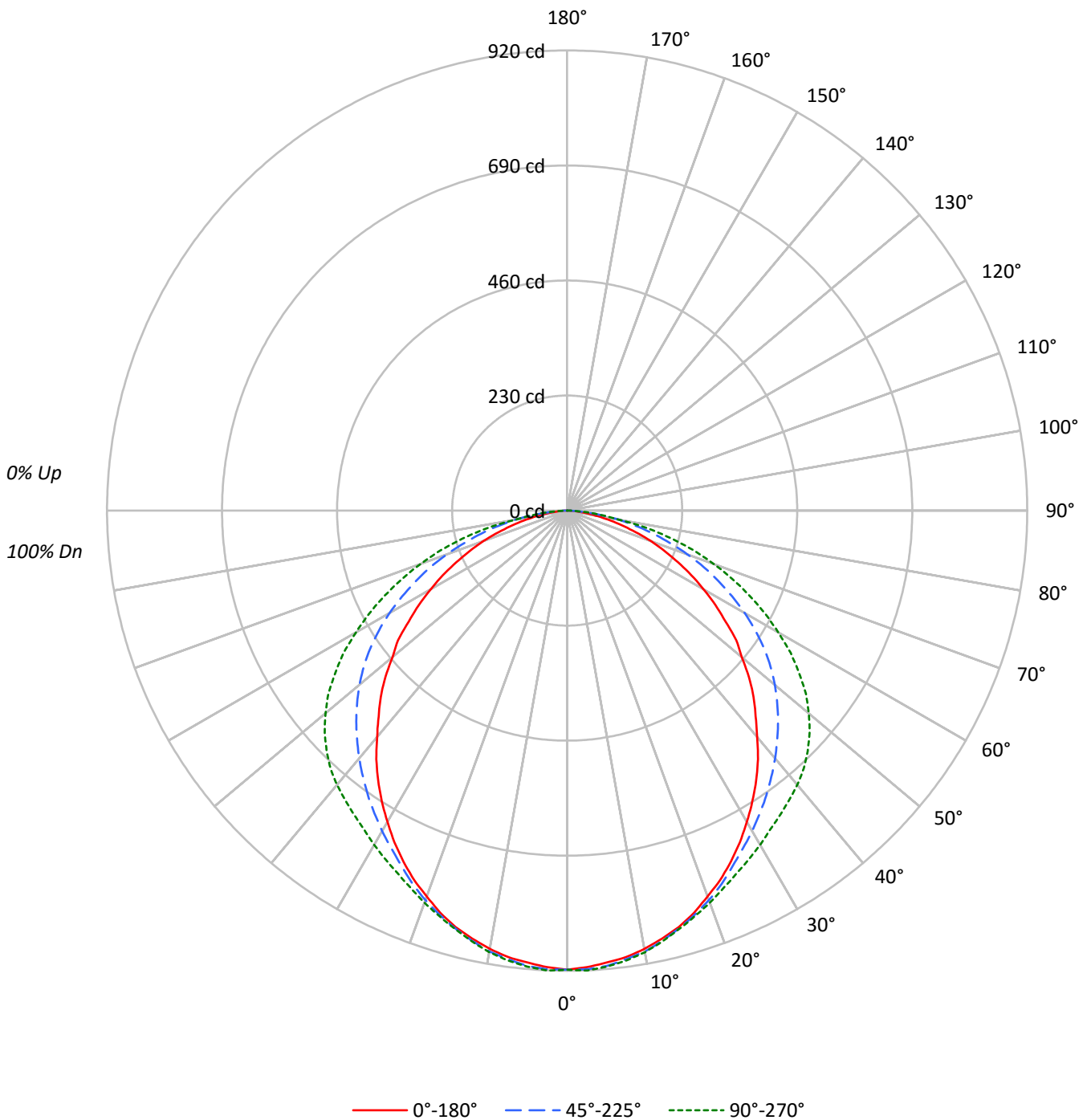
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2470	2470	2470
5°	2451	2468	2472
10°	2432	2446	2450
15°	2401	2409	2413
20°	2351	2373	2389
25°	2299	2327	2378
30°	2233	2299	2398
35°	2164	2282	2439
40°	2076	2272	2515
45°	2007	2270	2588
50°	1907	2269	2641
55°	1813	2256	2654
60°	1694	2209	2624
65°	1556	2123	2562
70°	1400	2017	2456
75°	1174	1851	2251
80°	905	1626	1647
85°	658	1108	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.4
10°-20°	243.7	9.5
20°-30°	362.6	14.1
30°-40°	436.7	17.0
40°-50°	462.4	18.0
50°-60°	427.6	16.7
60°-70°	325.6	12.7
70°-80°	181.2	7.1
80°-90°	41.3	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°	692.8	27.0
0°-40°	1129.5	44.0
0°-60°	2019.5	78.7
0°-90°	2567.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	907	910	914	915	915	86
15°	862	863	865	866	866	243
25°	774	776	784	794	801	356
35°	659	665	695	729	742	411
45°	527	543	596	656	680	405
55°	386	418	481	543	566	346
65°	244	276	333	384	402	243
75°	113	138	178	207	216	121
85°	21	29	36	38	38	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.8	917.8	917.8	917.8	917.8
2.5°	913.8	915.1	917.8	920.5	920.5
5°	907.2	909.8	913.8	915.1	915.1
7.5°	900.5	901.9	904.5	907.2	907.2
10°	889.9	891.2	895.2	896.5	896.5
12.5°	876.6	878.0	880.6	881.9	881.9
15°	862.0	863.3	864.7	866.0	866.0
17.5°	843.4	844.7	847.4	850.1	850.1
20°	820.8	824.8	828.8	831.5	834.1
22.5°	799.6	800.9	807.6	814.2	816.9
25°	774.3	775.7	783.6	794.3	800.9
27.5°	747.8	751.8	761.1	779.7	786.3
30°	718.6	723.9	739.8	762.4	771.7
32.5°	689.3	694.7	717.2	745.1	755.8
35°	658.8	665.4	694.7	729.2	742.5
37.5°	626.9	634.9	670.7	711.9	729.2
40°	591.1	604.3	646.8	694.7	715.9
42.5°	557.9	573.8	621.6	676.1	700.0
45°	527.3	543.2	596.4	656.1	680.0
47.5°	492.8	512.7	569.8	633.6	657.5
50°	455.6	480.8	541.9	607.0	630.9
52.5°	426.4	448.9	512.7	577.8	601.7
55°	386.5	418.4	480.8	543.2	565.8
57.5°	352.0	381.2	446.3	507.4	530.0
60°	314.8	345.3	410.4	467.5	487.5
62.5°	280.3	309.5	371.9	427.7	446.3
65°	244.4	276.3	333.4	383.9	402.4
67.5°	209.9	240.4	296.2	342.7	357.3
70°	178.0	204.5	256.3	294.9	312.1
72.5°	143.4	170.0	215.2	251.0	265.6
75°	112.9	138.1	178.0	207.2	216.5
77.5°	83.7	107.6	139.5	162.0	166.0
80°	58.4	78.4	104.9	108.9	106.3
82.5°	37.2	51.8	66.4	67.7	67.7
85°	21.3	29.2	35.9	38.5	38.5
87.5°	8.0	10.6	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)