

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: P220137

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-2L40-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2589.4 lumens  
Efficiency: N/A  
Efficacy: 124.5 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

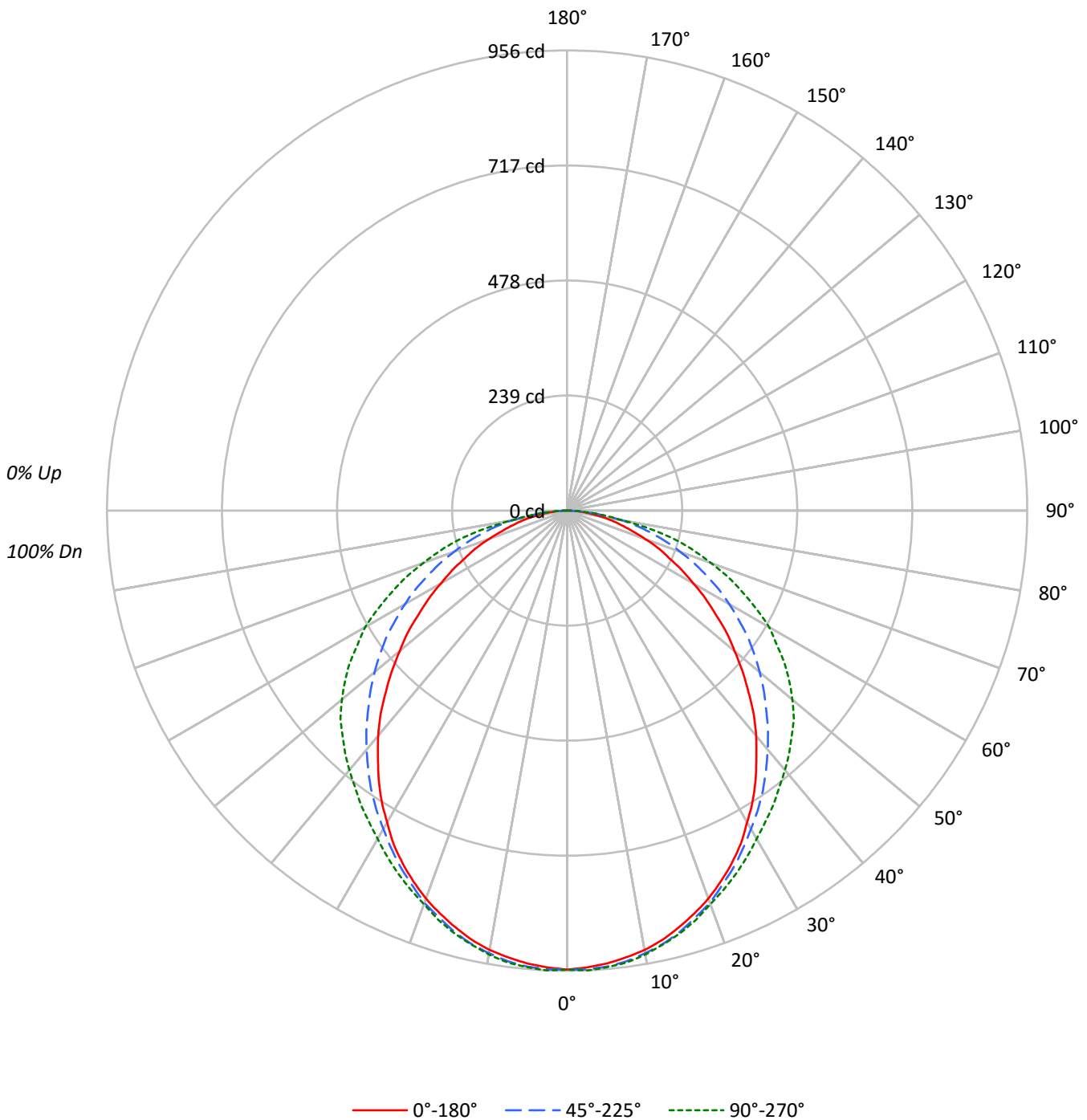
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
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°	2566	2566	2566
5°	2551	2569	2572
10°	2533	2551	2559
15°	2498	2523	2531
20°	2457	2484	2491
25°	2402	2429	2469
30°	2324	2373	2447
35°	2243	2330	2452
40°	2146	2277	2473
45°	2027	2224	2512
50°	1901	2185	2558
55°	1770	2150	2586
60°	1630	2095	2609
65°	1489	2030	2562
70°	1359	1965	2497
75°	1215	1892	2416
80°	1071	1770	1812
85°	942	1396	1352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	3.5
10°-20°	254.7	9.8
20°-30°	377.3	14.6
30°-40°	444.8	17.2
40°-50°	456.1	17.6
50°-60°	412.4	15.9
60°-70°	317.1	12.2
70°-80°	188.0	7.3
80°-90°	48.9	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°	722.2	27.9
0°-40°	1167.0	45.1
0°-60°	2035.5	78.6
0°-90°	2589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	944	947	951	952	952	90
15°	896	899	906	908	908	253
25°	809	812	818	828	832	372
35°	683	687	709	734	746	426
45°	533	543	584	638	660	411
55°	377	404	458	522	551	339
65°	234	263	319	380	402	235
75°	117	140	182	220	232	125
85°	30	37	45	48	44	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.7	953.7	953.7	953.7	953.7
2.5°	949.7	951.0	953.7	956.3	956.3
5°	944.4	947.0	951.0	952.3	952.3
7.5°	936.4	939.0	944.4	945.7	947.0
10°	927.1	928.4	933.7	936.4	936.4
12.5°	913.8	916.5	921.8	924.4	923.1
15°	896.5	899.2	905.8	908.5	908.5
17.5°	877.9	880.6	885.9	889.9	891.2
20°	858.0	859.4	867.3	870.0	870.0
22.5°	834.1	838.1	842.1	850.1	851.4
25°	808.9	811.5	818.2	827.5	831.5
27.5°	781.0	782.3	791.6	806.2	810.2
30°	747.8	753.1	763.7	782.3	787.6
32.5°	717.2	721.2	737.2	758.4	766.4
35°	682.7	686.7	709.3	734.5	746.5
37.5°	645.5	650.8	678.7	709.3	723.9
40°	611.0	617.6	648.2	686.7	704.0
42.5°	573.8	580.4	617.6	661.5	682.7
45°	532.6	543.2	584.4	637.5	660.1
47.5°	494.1	507.4	553.9	612.3	638.9
50°	454.2	472.8	522.0	585.7	611.0
52.5°	418.4	435.7	490.1	555.2	581.8
55°	377.2	403.8	458.2	522.0	551.2
57.5°	341.4	365.3	422.4	490.1	515.3
60°	302.8	329.4	389.2	454.2	484.8
62.5°	269.6	294.9	356.0	418.4	443.6
65°	233.8	263.0	318.8	379.9	402.4
67.5°	207.2	227.1	285.6	342.7	362.6
70°	172.7	196.6	249.7	301.5	317.4
72.5°	142.1	167.4	216.5	261.7	276.3
75°	116.9	139.5	182.0	220.5	232.4
77.5°	94.3	112.9	150.1	176.7	179.3
80°	69.1	85.0	114.2	120.9	116.9
82.5°	49.1	59.8	75.7	79.7	75.7
85°	30.5	37.2	45.2	47.8	43.8
87.5°	14.6	14.6	18.6	18.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)