

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: P220153

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-1L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1957.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

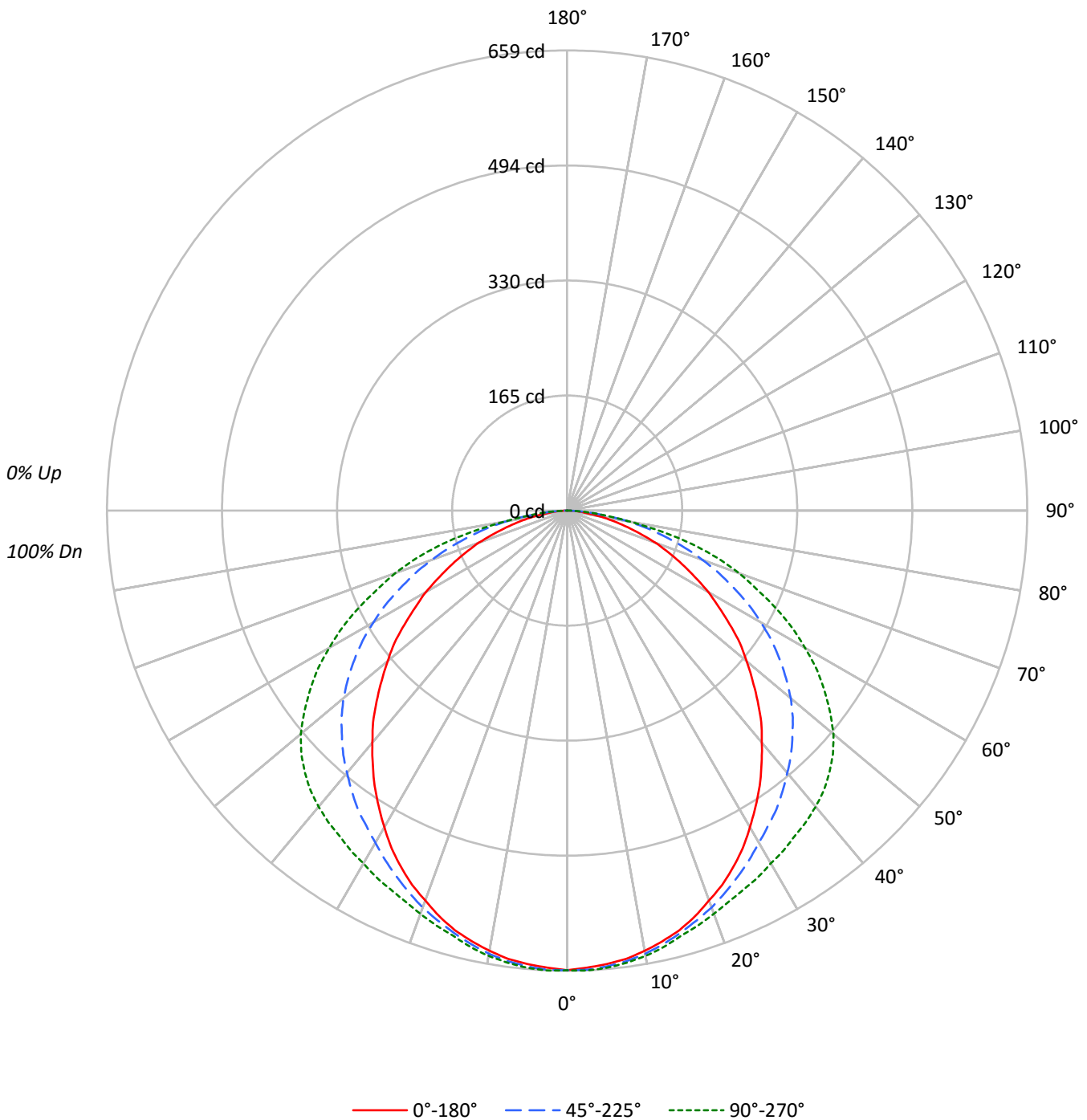
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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						100														
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83						83														
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69						69														
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57						57														
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49						49														
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42						42														
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36						36														
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32						32														
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29						29														
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26						26														
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23						23														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1771	1771	1771
5°	1761	1770	1775
10°	1749	1761	1770
15°	1733	1745	1757
20°	1702	1732	1760
25°	1672	1717	1777
30°	1627	1707	1813
35°	1580	1717	1868
40°	1524	1723	1945
45°	1468	1737	2021
50°	1405	1750	2085
55°	1334	1745	2111
60°	1259	1725	2117
65°	1157	1681	2096
70°	1060	1623	2060
75°	889	1522	1922
80°	728	1358	1392
85°	528	923	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.2
10°-20°	176.7	9.0
20°-30°	267.4	13.7
30°-40°	327.7	16.7
40°-50°	352.6	18.0
50°-60°	330.5	16.9
60°-70°	257.5	13.2
70°-80°	148.9	7.6
80°-90°	34.2	1.7
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°	506.3	25.9
0°-40°	834.0	42.6
0°-60°	1517.1	77.5
0°-90°	1957.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	652	653	655	656	657	62
15°	622	622	626	630	630	175
25°	563	566	578	592	598	259
35°	481	490	523	556	568	300
45°	386	404	456	510	531	298
55°	284	315	372	430	450	255
65°	182	213	264	312	329	180
75°	86	111	146	174	185	92
85°	17	26	30	31	30	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.3	658.3	658.3	658.3	658.3
2.5°	655.1	656.2	658.3	659.4	659.4
5°	651.9	653.0	655.1	656.2	657.2
7.5°	647.6	648.7	650.8	653.0	653.0
10°	640.1	641.2	644.4	646.5	647.6
12.5°	631.6	632.7	635.9	638.0	640.1
15°	622.0	622.0	626.2	630.5	630.5
17.5°	609.1	611.3	615.6	620.9	623.0
20°	594.2	597.4	604.9	611.3	614.5
22.5°	580.3	583.5	592.0	601.7	605.9
25°	563.2	566.4	578.2	592.0	598.5
27.5°	545.0	550.4	564.3	584.6	592.0
30°	523.6	530.1	549.3	574.9	583.5
32.5°	502.3	510.8	535.4	566.4	577.1
35°	480.9	490.5	522.6	555.7	568.5
37.5°	457.4	469.1	506.6	546.1	562.1
40°	433.9	446.7	490.5	535.4	553.6
42.5°	411.4	427.5	474.5	522.6	544.0
45°	385.8	404.0	456.3	509.8	531.1
47.5°	360.1	382.6	438.2	493.7	516.2
50°	335.6	359.1	417.9	475.6	498.0
52.5°	312.1	336.6	395.4	453.1	474.5
55°	284.3	315.3	371.9	429.6	449.9
57.5°	257.5	288.5	347.3	401.8	424.3
60°	234.0	260.8	320.6	373.0	393.3
62.5°	206.3	235.1	293.9	343.0	363.3
65°	181.7	212.7	264.0	312.1	329.2
67.5°	157.1	183.8	236.2	277.9	293.9
70°	134.7	159.2	206.3	244.7	261.8
72.5°	109.0	134.7	176.3	209.5	225.5
75°	85.5	111.1	146.4	174.2	184.9
77.5°	65.2	87.6	117.6	136.8	138.9
80°	47.0	64.1	87.6	93.0	89.8
82.5°	29.9	43.8	55.6	56.6	56.6
85°	17.1	25.6	29.9	31.0	29.9
87.5°	7.5	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)