

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: P220170

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-1L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

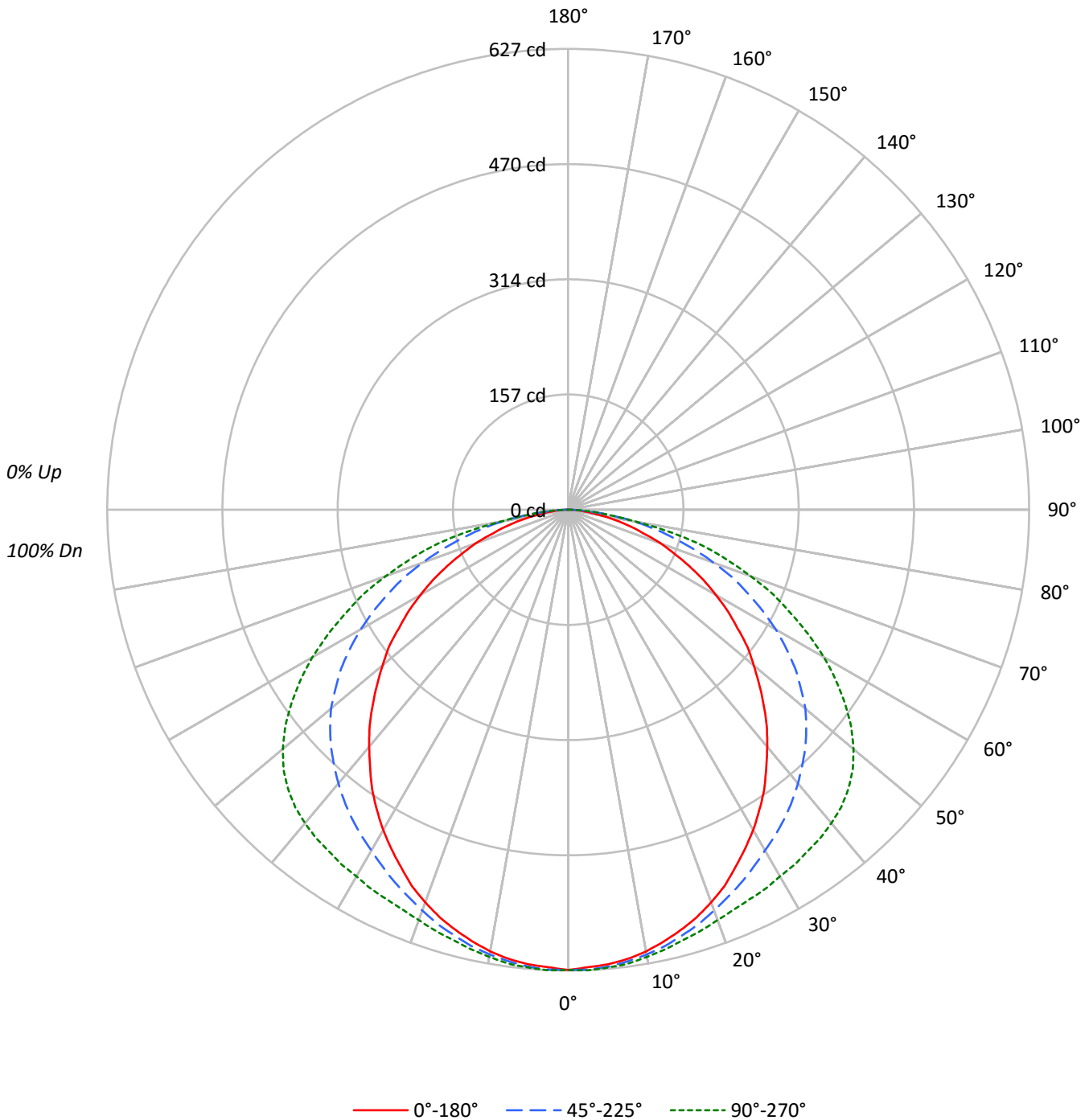
Lumens per Lamp: N/A
Luminaire Lumens: 1943.2 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1685	1685	1685
5°	1677	1686	1689
10°	1667	1679	1688
15°	1649	1670	1688
20°	1628	1662	1702
25°	1596	1659	1736
30°	1564	1664	1790
35°	1527	1685	1864
40°	1479	1708	1956
45°	1432	1737	2050
50°	1378	1763	2121
55°	1319	1770	2156
60°	1248	1754	2162
65°	1157	1715	2130
70°	1051	1656	2077
75°	911	1544	1978
80°	713	1392	1441
85°	528	957	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.0
10°-20°	169.3	8.7
20°-30°	258.5	13.3
30°-40°	322.0	16.6
40°-50°	352.0	18.1
50°-60°	333.9	17.2
60°-70°	261.6	13.5
70°-80°	151.2	7.8
80°-90°	35.5	1.8
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°	487.0	25.1
0°-40°	809.0	41.6
0°-60°	1494.9	76.9
0°-90°	1943.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	621	622	624	625	625	59
15°	592	594	600	605	606	167
25°	538	543	559	577	585	248
35°	465	476	513	552	568	290
45°	376	399	456	515	539	290
55°	281	315	377	437	460	252
65°	182	214	269	317	334	180
75°	88	111	148	177	190	93
85°	17	25	31	33	33	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.2	626.2	626.2	626.2	626.2
2.5°	623.0	624.1	626.2	627.3	627.3
5°	620.9	622.0	624.1	625.2	625.2
7.5°	616.6	617.7	619.8	622.0	623.0
10°	610.2	611.3	614.5	617.7	617.7
12.5°	601.7	603.8	608.1	611.3	612.3
15°	592.0	594.2	599.5	604.9	605.9
17.5°	581.4	584.6	591.0	597.4	600.6
20°	568.5	570.7	580.3	589.9	594.2
22.5°	554.6	557.8	569.6	583.5	588.8
25°	537.5	542.9	558.9	577.1	584.6
27.5°	520.4	527.9	547.2	571.7	581.4
30°	503.3	510.8	535.4	565.3	576.0
32.5°	484.1	493.7	524.7	558.9	572.8
35°	464.9	475.6	513.0	552.5	567.5
37.5°	442.4	456.3	500.1	545.0	563.2
40°	421.1	436.0	486.2	536.5	556.8
42.5°	399.7	416.8	471.3	526.9	549.3
45°	376.2	398.6	456.3	515.1	538.6
47.5°	352.7	378.3	439.2	501.2	524.7
50°	329.2	355.9	421.1	484.1	506.6
52.5°	307.8	334.5	398.6	461.7	485.2
55°	281.1	315.3	377.2	437.1	459.5
57.5°	257.5	288.5	351.6	410.4	431.7
60°	231.9	262.9	325.9	381.5	401.8
62.5°	207.3	237.2	298.2	350.5	368.7
65°	181.7	213.7	269.3	317.4	334.5
67.5°	156.0	185.9	242.6	284.3	302.4
70°	133.6	161.4	210.5	249.0	264.0
72.5°	107.9	134.7	179.5	213.7	226.6
75°	87.6	111.1	148.5	177.4	190.2
77.5°	66.3	88.7	119.7	138.9	144.3
80°	46.0	65.2	89.8	97.2	93.0
82.5°	29.9	44.9	57.7	59.8	58.8
85°	17.1	24.6	31.0	33.1	33.1
87.5°	7.5	9.6	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)