

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: P220289

Luminaire Tested: **Z3-WD-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-4L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

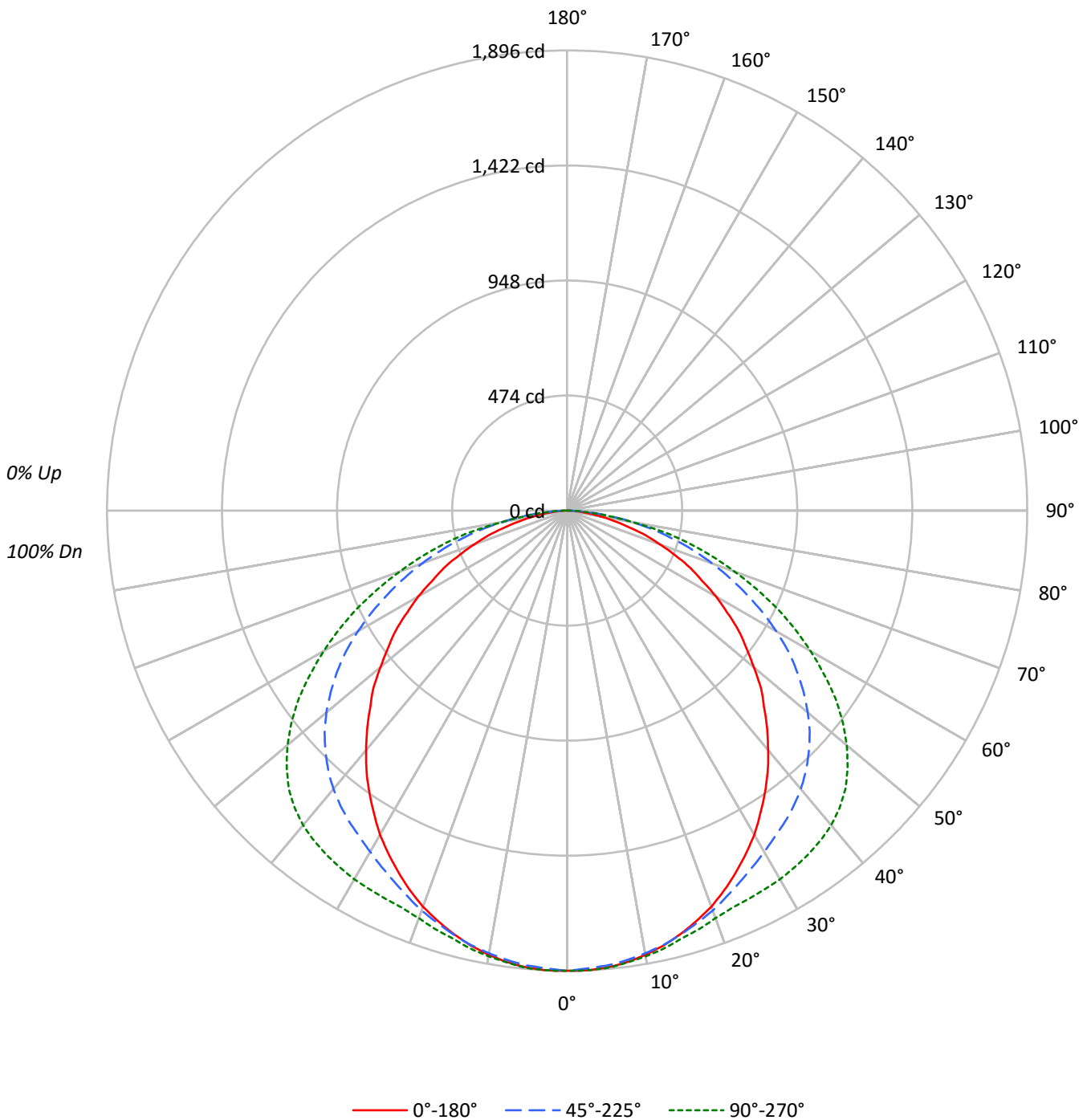
Lumens per Lamp: N/A
Luminaire Lumens: 5880.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	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	28	54	41	33	27	40	32	27	39	32	27	38	32	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°	2551	2551	2551
5°	2553	2541	2555
10°	2539	2531	2548
15°	2516	2519	2542
20°	2487	2511	2559
25°	2442	2504	2622
30°	2396	2523	2725
35°	2333	2571	2843
40°	2263	2631	2973
45°	2185	2679	3086
50°	2101	2710	3149
55°	2025	2713	3165
60°	1906	2678	3118
65°	1788	2595	3042
70°	1599	2497	2885
75°	1362	2353	2690
80°	1088	2111	2111
85°	777	1521	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.0
10°-20°	512.0	8.7
20°-30°	784.1	13.3
30°-40°	983.1	16.7
40°-50°	1074.9	18.3
50°-60°	1009.2	17.2
60°-70°	779.3	13.3
70°-80°	448.3	7.6
80°-90°	109.9	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°	1475.4	25.1
0°-40°	2458.4	41.8
0°-60°	4542.5	77.3
0°-90°	5880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1890	1886	1882	1888	1892	179
15°	1806	1808	1808	1823	1825	509
25°	1645	1655	1687	1741	1766	758
35°	1420	1452	1565	1689	1731	888
45°	1148	1219	1408	1567	1622	887
55°	863	962	1157	1305	1349	767
65°	562	658	815	922	955	551
75°	262	350	453	507	518	283
85°	50	92	98	94	94	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896.2	1896.2	1896.2	1896.2	1896.2
2.5°	1896.2	1894.1	1887.8	1894.1	1896.2
5°	1889.9	1885.7	1881.5	1887.8	1892.0
7.5°	1877.3	1875.2	1868.9	1879.4	1879.4
10°	1858.4	1856.3	1852.2	1862.6	1864.7
12.5°	1835.4	1833.3	1833.3	1845.9	1848.0
15°	1806.1	1808.2	1808.2	1822.8	1824.9
17.5°	1772.5	1772.5	1780.9	1799.8	1808.2
20°	1736.9	1739.0	1753.7	1776.7	1787.2
22.5°	1692.9	1701.3	1720.2	1757.9	1772.5
25°	1644.7	1655.2	1686.6	1741.1	1766.3
27.5°	1594.4	1609.1	1655.2	1728.5	1760.0
30°	1542.1	1560.9	1623.8	1718.1	1753.7
32.5°	1481.3	1506.4	1592.4	1703.4	1743.2
35°	1420.5	1452.0	1565.1	1688.7	1730.6
37.5°	1357.7	1393.3	1533.7	1665.7	1713.9
40°	1288.5	1338.8	1498.1	1640.5	1692.9
42.5°	1219.4	1280.2	1456.2	1609.1	1661.5
45°	1148.2	1219.4	1408.0	1567.2	1621.7
47.5°	1083.2	1158.6	1355.6	1514.8	1567.2
50°	1003.6	1097.9	1294.8	1454.1	1504.4
52.5°	930.3	1032.9	1227.8	1384.9	1431.0
55°	863.2	961.7	1156.6	1305.3	1349.3
57.5°	781.5	888.4	1081.1	1219.4	1255.0
60°	708.2	812.9	995.2	1123.0	1158.6
62.5°	626.5	743.8	907.2	1026.6	1058.1
65°	561.5	657.9	815.0	921.9	955.4
67.5°	481.9	578.3	724.9	819.2	842.3
70°	406.5	498.7	634.8	714.5	733.3
72.5°	339.4	421.1	544.8	609.7	626.5
75°	261.9	349.9	452.6	507.0	517.5
77.5°	199.0	276.6	364.6	400.2	408.6
80°	140.4	211.6	272.4	287.0	272.4
82.5°	90.1	148.8	186.5	178.1	171.8
85°	50.3	92.2	98.5	94.3	94.3
87.5°	21.0	33.5	33.5	31.4	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)