

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: P220284

Luminaire Tested: **Z3-WD-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220284
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-4L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5615.1 lumens
Efficiency: N/A
Efficacy: 93.9 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

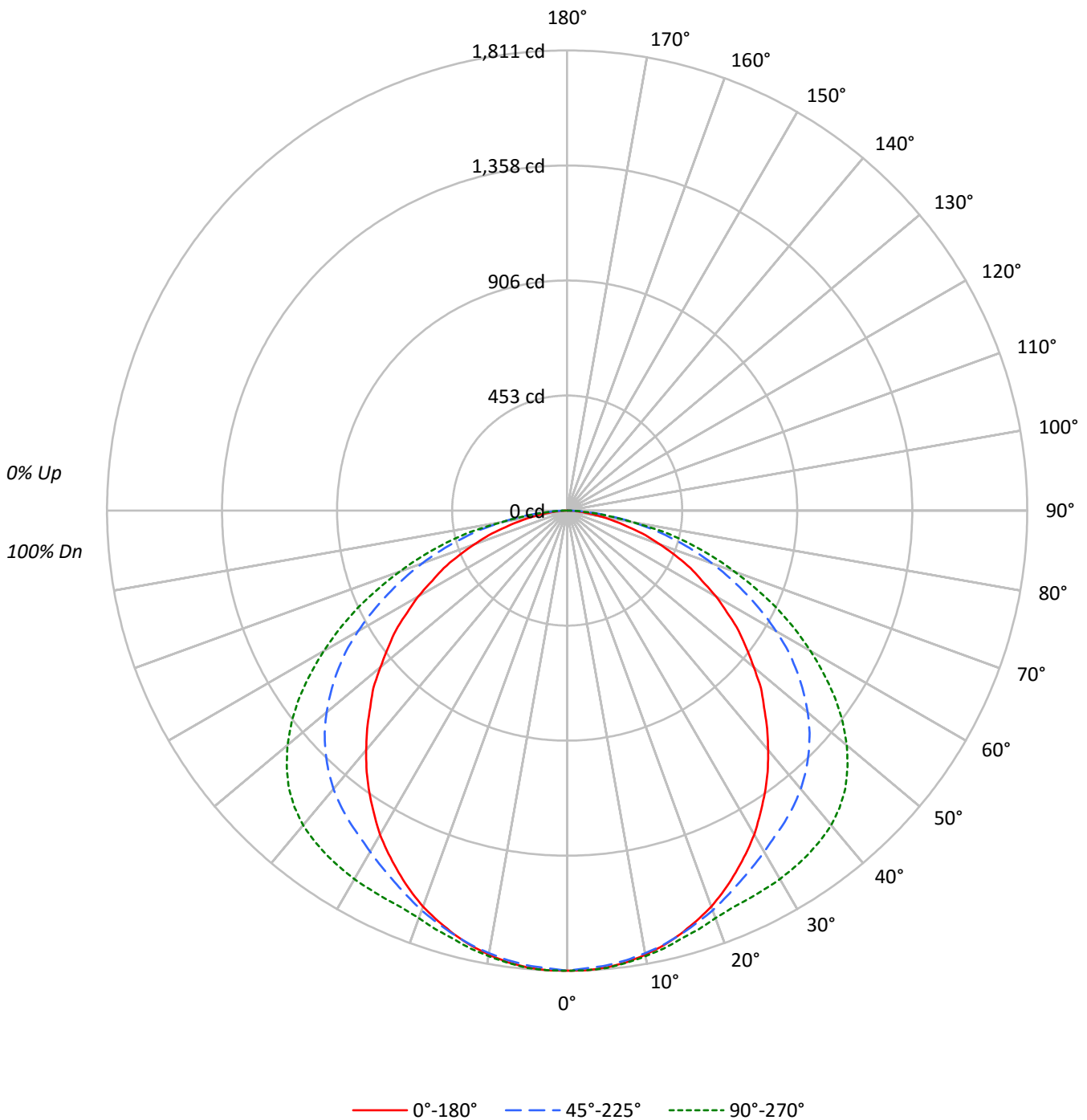
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2436	2436	2436
5°	2437	2427	2440
10°	2425	2416	2433
15°	2402	2405	2427
20°	2375	2398	2444
25°	2332	2391	2504
30°	2288	2409	2602
35°	2228	2455	2715
40°	2161	2513	2840
45°	2086	2558	2947
50°	2006	2588	3007
55°	1934	2591	3023
60°	1820	2558	2977
65°	1707	2478	2905
70°	1527	2385	2755
75°	1300	2247	2569
80°	1039	2015	2015
85°	741	1451	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.0
10°-20°	489.0	8.7
20°-30°	748.8	13.3
30°-40°	938.8	16.7
40°-50°	1026.5	18.3
50°-60°	963.8	17.2
60°-70°	744.2	13.3
70°-80°	428.1	7.6
80°-90°	104.9	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°	1408.9	25.1
0°-40°	2347.7	41.8
0°-60°	4337.9	77.3
0°-90°	5615.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1805	1801	1797	1803	1807	171
15°	1725	1727	1727	1741	1743	486
25°	1571	1581	1611	1663	1687	724
35°	1356	1387	1495	1613	1653	848
45°	1096	1164	1344	1497	1549	847
55°	824	918	1104	1246	1288	732
65°	536	628	778	880	912	526
75°	250	334	432	484	494	270
85°	48	88	94	90	90	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.7	1810.7	1810.7	1810.7	1810.7
2.5°	1810.7	1808.7	1802.7	1808.7	1810.7
5°	1804.7	1800.7	1796.7	1802.7	1806.7
7.5°	1792.7	1790.7	1784.7	1794.7	1794.7
10°	1774.7	1772.7	1768.7	1778.7	1780.7
12.5°	1752.7	1750.7	1750.7	1762.7	1764.7
15°	1724.7	1726.7	1726.7	1740.7	1742.7
17.5°	1692.7	1692.7	1700.7	1718.7	1726.7
20°	1658.7	1660.7	1674.7	1696.7	1706.7
22.5°	1616.7	1624.7	1642.7	1678.7	1692.7
25°	1570.6	1580.6	1610.6	1662.7	1686.7
27.5°	1522.6	1536.6	1580.6	1650.7	1680.7
30°	1472.6	1490.6	1550.6	1640.7	1674.7
32.5°	1414.6	1438.6	1520.6	1626.7	1664.7
35°	1356.5	1386.6	1494.6	1612.7	1652.7
37.5°	1296.5	1330.5	1464.6	1590.6	1636.7
40°	1230.5	1278.5	1430.6	1566.6	1616.7
42.5°	1164.5	1222.5	1390.6	1536.6	1586.6
45°	1096.4	1164.5	1344.5	1496.6	1548.6
47.5°	1034.4	1106.4	1294.5	1446.6	1496.6
50°	958.4	1048.4	1236.5	1388.6	1436.6
52.5°	888.4	986.4	1172.5	1322.5	1366.6
55°	824.3	918.4	1104.4	1246.5	1288.5
57.5°	746.3	848.3	1032.4	1164.5	1198.5
60°	676.3	776.3	950.4	1072.4	1106.4
62.5°	598.2	710.3	866.3	980.4	1010.4
65°	536.2	628.3	778.3	880.4	912.4
67.5°	460.2	552.2	692.3	782.3	804.3
70°	388.2	476.2	606.2	682.3	700.3
72.5°	324.1	402.2	520.2	582.2	598.2
75°	250.1	334.1	432.2	484.2	494.2
77.5°	190.1	264.1	348.1	382.2	390.2
80°	134.1	202.1	260.1	274.1	260.1
82.5°	86.0	142.1	178.1	170.1	164.1
85°	48.0	88.0	94.0	90.0	90.0
87.5°	20.0	32.0	32.0	30.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)