

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: P220275

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-4L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5905.8 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

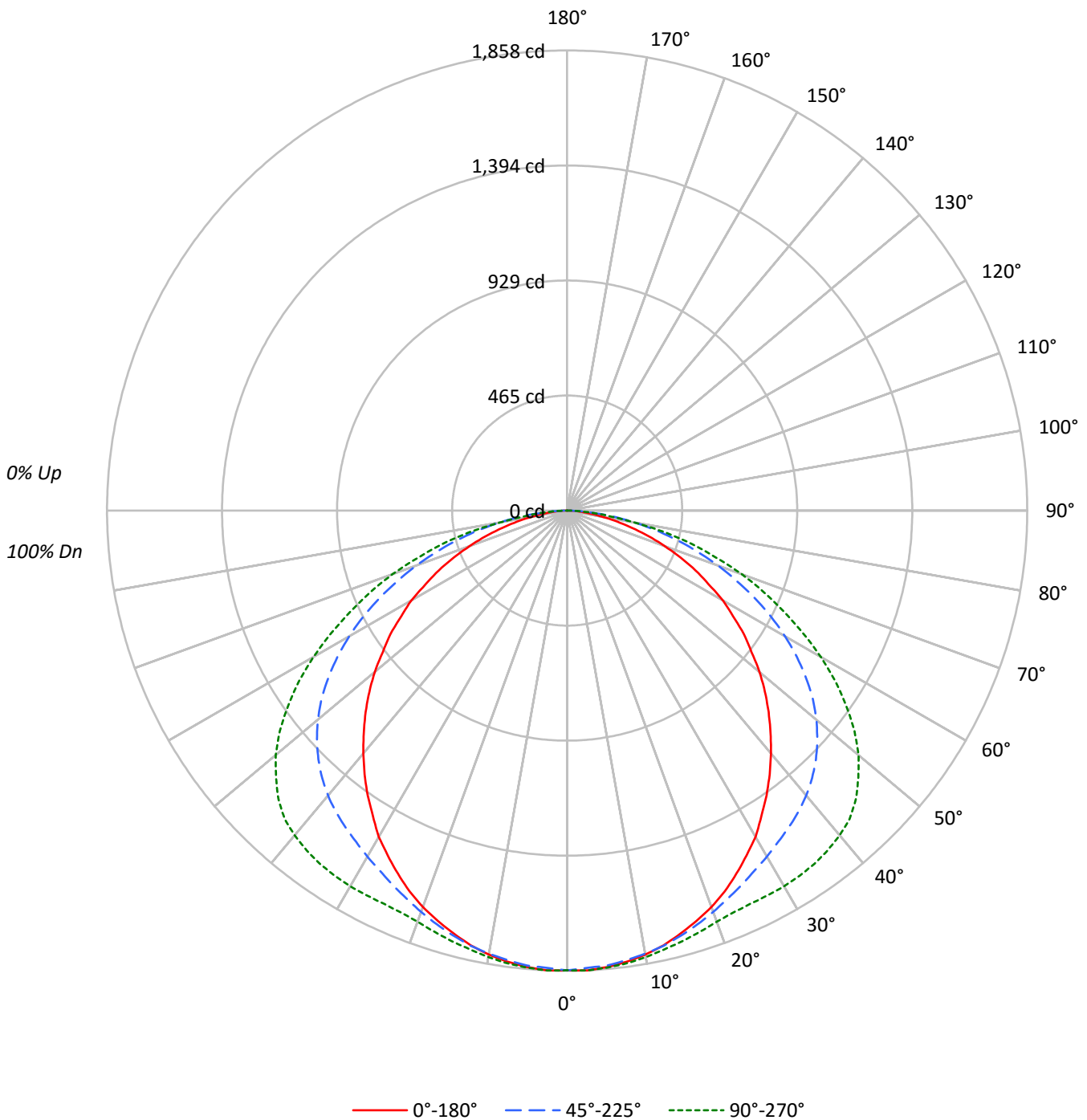
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2498	2498	2498
5°	2499	2490	2502
10°	2488	2482	2502
15°	2463	2475	2507
20°	2439	2469	2529
25°	2401	2476	2600
30°	2363	2506	2721
35°	2306	2564	2860
40°	2249	2639	3007
45°	2189	2703	3138
50°	2123	2750	3215
55°	2045	2762	3229
60°	1956	2735	3186
65°	1821	2662	3075
70°	1648	2547	2951
75°	1405	2375	2712
80°	1137	2143	2094
85°	777	1521	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.0
10°-20°	503.2	8.5
20°-30°	774.9	13.1
30°-40°	981.1	16.6
40°-50°	1084.6	18.4
50°-60°	1027.3	17.4
60°-70°	795.8	13.5
70°-80°	453.5	7.7
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°	1453.7	24.6
0°-40°	2434.7	41.2
0°-60°	4546.6	77.0
0°-90°	5905.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5905.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1850	1848	1844	1850	1852	176
15°	1768	1772	1777	1794	1800	499
25°	1618	1630	1668	1728	1752	745
35°	1404	1439	1561	1693	1741	878
45°	1150	1224	1420	1588	1649	887
55°	872	976	1178	1328	1376	777
65°	572	673	836	943	966	565
75°	270	356	457	507	522	292
85°	50	92	98	96	96	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.3	1856.3	1856.3	1856.3	1856.3
2.5°	1858.4	1854.3	1848.0	1856.3	1858.4
5°	1850.1	1848.0	1843.8	1850.1	1852.2
7.5°	1837.5	1835.4	1831.2	1841.7	1843.8
10°	1820.7	1820.7	1816.5	1827.0	1831.2
12.5°	1797.7	1799.8	1799.8	1810.3	1814.4
15°	1768.3	1772.5	1776.7	1793.5	1799.8
17.5°	1736.9	1743.2	1751.6	1772.5	1783.0
20°	1703.4	1707.6	1724.3	1755.8	1766.3
22.5°	1663.6	1669.9	1695.0	1739.0	1755.8
25°	1617.5	1630.1	1667.8	1728.5	1751.6
27.5°	1569.3	1584.0	1638.4	1718.1	1751.6
30°	1521.1	1537.9	1613.3	1711.8	1751.6
32.5°	1460.4	1489.7	1586.1	1705.5	1747.4
35°	1403.8	1439.4	1560.9	1692.9	1741.1
37.5°	1343.0	1387.0	1533.7	1676.2	1728.5
40°	1280.2	1334.6	1502.3	1655.2	1711.8
42.5°	1215.2	1280.2	1464.5	1628.0	1688.7
45°	1150.3	1223.6	1420.5	1588.2	1648.9
47.5°	1083.2	1164.9	1370.3	1540.0	1594.4
50°	1014.1	1104.2	1313.7	1481.3	1535.8
52.5°	938.6	1043.4	1250.8	1410.1	1462.4
55°	871.6	976.4	1177.5	1328.4	1376.5
57.5°	794.1	911.4	1100.0	1244.5	1284.4
60°	727.0	829.7	1016.2	1148.2	1183.8
62.5°	643.2	760.6	928.2	1047.6	1074.8
65°	572.0	672.6	836.0	942.8	965.9
67.5°	494.5	592.9	739.6	833.9	859.0
70°	419.0	509.1	647.4	722.8	750.1
72.5°	345.7	431.6	551.0	616.0	628.6
75°	270.3	356.2	456.8	507.0	521.7
77.5°	207.4	278.7	366.7	406.5	404.4
80°	146.7	209.5	276.6	282.9	270.3
82.5°	94.3	148.8	186.5	171.8	171.8
85°	50.3	92.2	98.5	96.4	96.4
87.5°	18.9	33.5	33.5	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)