

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: P220279

Luminaire Tested: **Z3-WD-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220279
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-4L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5502.2 lumens
Efficiency: N/A
Efficacy: 92.0 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

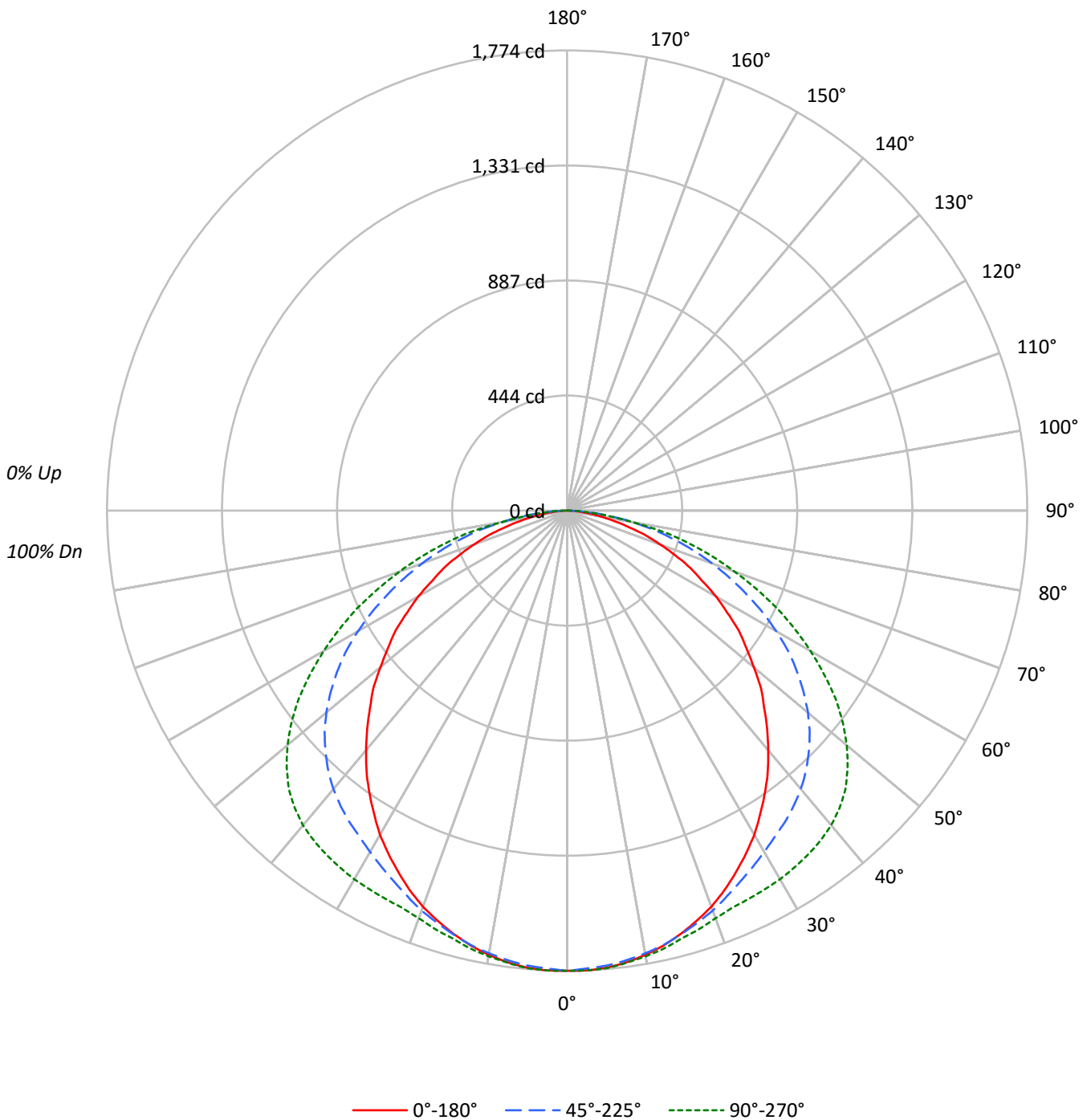
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48					48			
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2388	2378	2391
10°	2376	2368	2384
15°	2354	2357	2379
20°	2327	2350	2395
25°	2285	2343	2454
30°	2242	2361	2550
35°	2183	2405	2660
40°	2118	2462	2782
45°	2044	2507	2888
50°	1966	2536	2947
55°	1895	2539	2962
60°	1783	2506	2918
65°	1673	2428	2846
70°	1496	2337	2699
75°	1274	2202	2518
80°	1018	1975	1975
85°	727	1422	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	3.0
10°-20°	479.1	8.7
20°-30°	733.7	13.3
30°-40°	919.9	16.7
40°-50°	1005.8	18.3
50°-60°	944.4	17.2
60°-70°	729.3	13.3
70°-80°	419.5	7.6
80°-90°	102.8	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°	1380.6	25.1
0°-40°	2300.5	41.8
0°-60°	4250.7	77.3
0°-90°	5502.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5502.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1768	1764	1761	1766	1770	168
15°	1690	1692	1692	1706	1708	477
25°	1539	1549	1578	1629	1653	709
35°	1329	1359	1464	1580	1619	831
45°	1074	1141	1318	1466	1518	830
55°	808	900	1082	1221	1263	718
65°	525	616	763	863	894	515
75°	245	327	424	474	484	265
85°	47	86	92	88	88	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.3	1774.3	1774.3	1774.3	1774.3
2.5°	1774.3	1772.4	1766.5	1772.4	1774.3
5°	1768.4	1764.5	1760.6	1766.5	1770.4
7.5°	1756.7	1754.7	1748.8	1758.6	1758.6
10°	1739.0	1737.1	1733.1	1742.9	1744.9
12.5°	1717.5	1715.5	1715.5	1727.3	1729.2
15°	1690.0	1692.0	1692.0	1705.7	1707.7
17.5°	1658.6	1658.6	1666.5	1684.1	1692.0
20°	1625.3	1627.3	1641.0	1662.6	1672.4
22.5°	1584.1	1592.0	1609.6	1644.9	1658.6
25°	1539.0	1548.9	1578.3	1629.2	1652.8
27.5°	1492.0	1505.7	1548.9	1617.5	1646.9
30°	1443.0	1460.6	1519.4	1607.7	1641.0
32.5°	1386.1	1409.7	1490.0	1593.9	1631.2
35°	1329.3	1358.7	1464.5	1580.2	1619.4
37.5°	1270.4	1303.8	1435.1	1558.7	1603.7
40°	1205.8	1252.8	1401.8	1535.1	1584.1
42.5°	1141.1	1197.9	1362.6	1505.7	1554.7
45°	1074.4	1141.1	1317.5	1466.5	1517.5
47.5°	1013.6	1084.2	1268.5	1417.5	1466.5
50°	939.1	1027.3	1211.6	1360.6	1407.7
52.5°	870.5	966.6	1148.9	1295.9	1339.1
55°	807.8	899.9	1082.2	1221.4	1262.6
57.5°	731.3	831.3	1011.7	1141.1	1174.4
60°	662.7	760.7	931.3	1050.9	1084.2
62.5°	586.2	696.0	848.9	960.7	990.1
65°	525.4	615.6	762.7	862.7	894.0
67.5°	450.9	541.1	678.4	766.6	788.1
70°	380.4	466.6	594.1	668.6	686.2
72.5°	317.6	394.1	509.7	570.5	586.2
75°	245.1	327.4	423.5	474.5	484.3
77.5°	186.3	258.8	341.1	374.5	382.3
80°	131.4	198.0	254.9	268.6	254.9
82.5°	84.3	139.2	174.5	166.6	160.8
85°	47.1	86.3	92.1	88.2	88.2
87.5°	19.6	31.4	31.4	29.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)