

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: P220292

Luminaire Tested: **Z3-WN-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-3L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4804.6 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

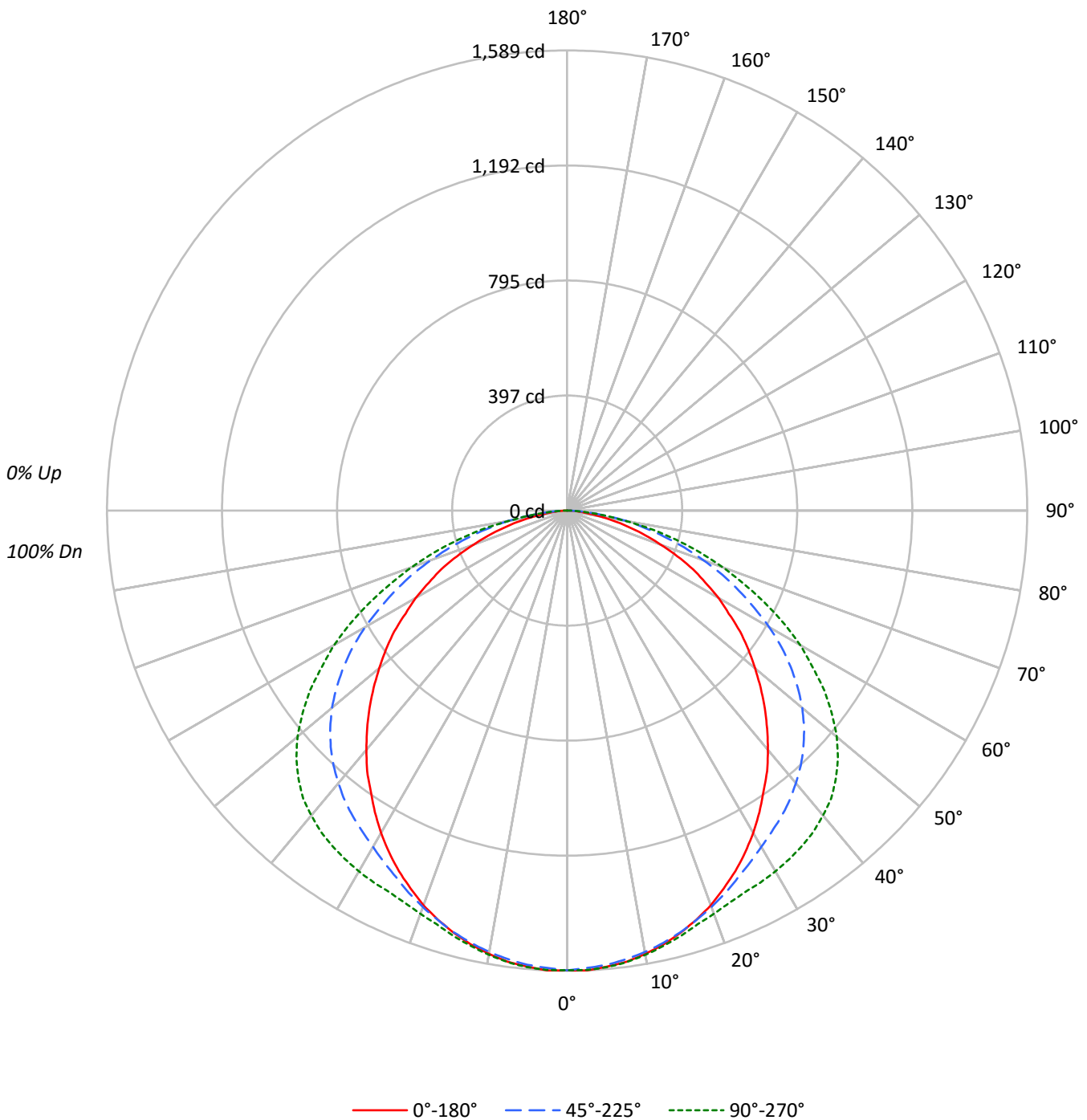
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2136	2136	2136
5°	2135	2126	2138
10°	2124	2115	2128
15°	2103	2101	2117
20°	2077	2086	2122
25°	2040	2075	2158
30°	1996	2084	2235
35°	1942	2119	2322
40°	1894	2158	2414
45°	1838	2196	2495
50°	1772	2219	2544
55°	1711	2211	2545
60°	1624	2167	2501
65°	1527	2085	2395
70°	1353	1965	2244
75°	1143	1797	2020
80°	884	1602	1550
85°	613	1098	1047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.9	3.1
10°-20°	426.9	8.9
20°-30°	649.9	13.5
30°-40°	810.4	16.9
40°-50°	882.4	18.4
50°-60°	825.1	17.2
60°-70°	629.2	13.1
70°-80°	349.0	7.3
80°-90°	81.8	1.7
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°	1226.7	25.5
0°-40°	2037.1	42.4
0°-60°	3744.6	77.9
0°-90°	4804.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4804.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1581	1581	1574	1581	1583	150
15°	1510	1510	1508	1518	1520	426
25°	1374	1379	1397	1437	1454	633
35°	1182	1209	1290	1381	1414	741
45°	966	1017	1154	1272	1311	744
55°	729	800	943	1052	1085	649
65°	480	542	655	733	752	471
75°	220	280	346	385	389	237
85°	40	68	71	71	68	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1587.5	1587.5	1587.5	1587.5	1587.5
2.5°	1589.2	1585.9	1580.9	1585.9	1587.5
5°	1580.9	1580.9	1574.3	1580.9	1582.6
7.5°	1571.0	1569.3	1562.7	1571.0	1572.6
10°	1554.5	1552.8	1547.8	1554.5	1557.8
12.5°	1534.6	1533.0	1529.7	1539.6	1539.6
15°	1509.8	1509.8	1508.2	1518.1	1519.7
17.5°	1481.7	1481.7	1483.3	1494.9	1498.2
20°	1450.3	1450.3	1456.9	1475.1	1481.7
22.5°	1412.2	1415.5	1428.8	1453.6	1465.2
25°	1374.2	1379.2	1397.4	1437.0	1453.6
27.5°	1331.2	1339.5	1369.2	1423.8	1447.0
30°	1284.9	1296.5	1341.1	1412.2	1438.7
32.5°	1235.3	1251.8	1314.7	1397.4	1427.1
35°	1182.4	1208.8	1289.9	1380.8	1413.9
37.5°	1134.4	1160.9	1261.8	1361.0	1397.4
40°	1078.2	1111.3	1228.7	1337.8	1374.2
42.5°	1022.0	1066.6	1194.0	1308.1	1349.4
45°	965.7	1017.0	1154.3	1271.7	1311.4
47.5°	906.2	964.1	1109.6	1228.7	1268.4
50°	846.7	914.5	1060.0	1179.1	1215.5
52.5°	788.8	859.9	1003.8	1119.5	1152.6
55°	729.3	800.4	942.6	1051.7	1084.8
57.5°	661.5	745.8	878.1	977.3	1003.8
60°	603.6	676.4	805.3	897.9	929.4
62.5°	537.4	613.5	729.3	820.2	843.4
65°	479.6	542.4	654.9	732.6	752.4
67.5°	411.8	476.3	580.4	644.9	659.8
70°	344.0	408.5	499.4	560.6	570.5
72.5°	282.8	344.0	423.3	473.0	481.2
75°	219.9	279.5	345.6	385.3	388.6
77.5°	167.0	219.9	272.9	301.0	302.6
80°	114.1	160.4	206.7	210.0	200.1
82.5°	72.8	110.8	133.9	129.0	129.0
85°	39.7	67.8	71.1	71.1	67.8
87.5°	16.5	26.5	26.5	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)