

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: P220291

Luminaire Tested: **Z3-WN-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220291
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-2L30-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

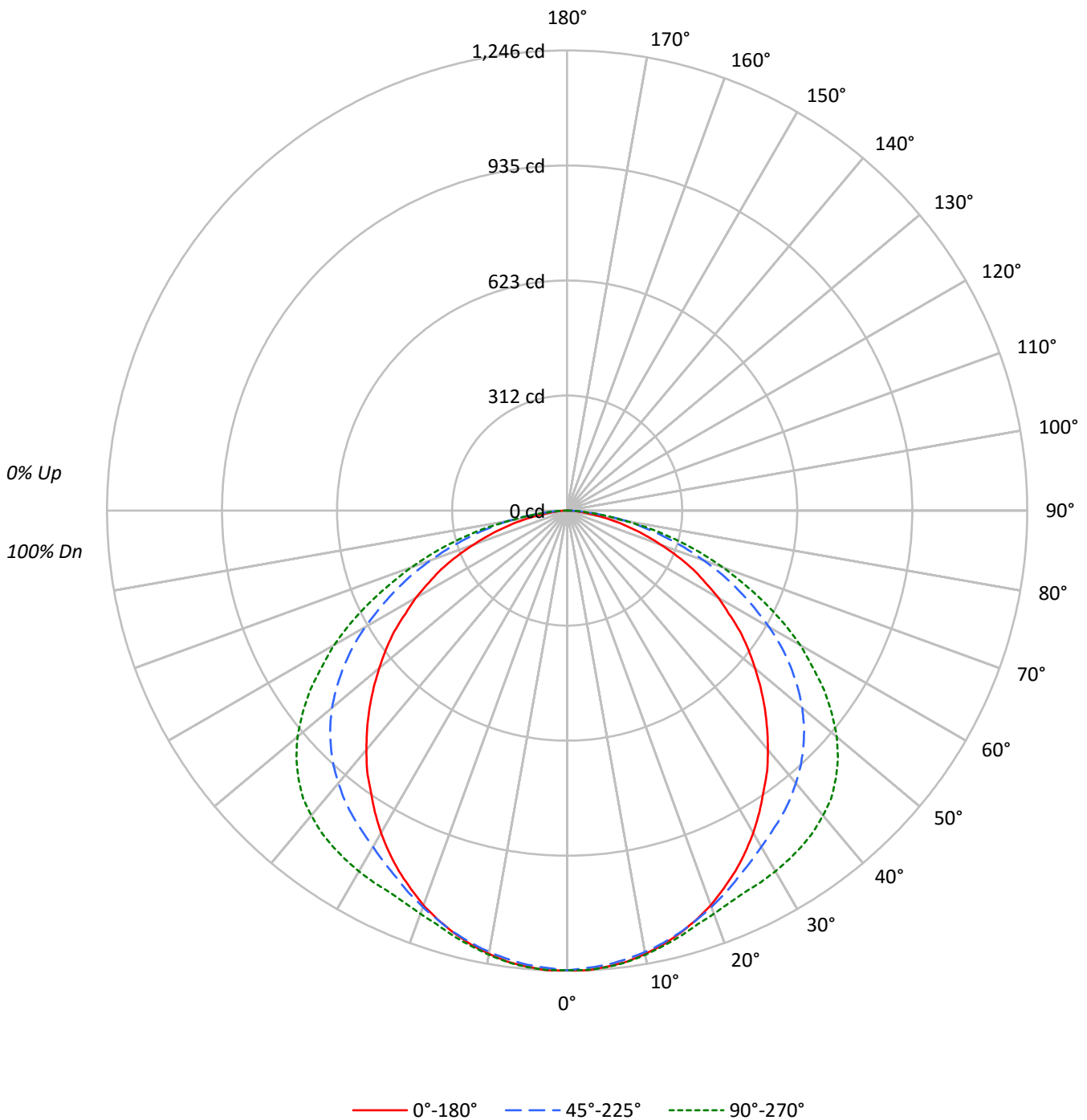
Lumens per Lamp: N/A
Luminaire Lumens: 3767.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
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°	1675	1675	1675
5°	1674	1667	1676
10°	1665	1658	1669
15°	1649	1647	1660
20°	1628	1636	1664
25°	1600	1627	1692
30°	1565	1634	1753
35°	1523	1661	1821
40°	1485	1692	1893
45°	1441	1722	1957
50°	1390	1740	1995
55°	1341	1734	1995
60°	1274	1699	1961
65°	1197	1635	1878
70°	1061	1541	1760
75°	897	1409	1584
80°	693	1256	1216
85°	480	861	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.1
10°-20°	334.7	8.9
20°-30°	509.6	13.5
30°-40°	635.5	16.9
40°-50°	691.9	18.4
50°-60°	647.0	17.2
60°-70°	493.3	13.1
70°-80°	273.7	7.3
80°-90°	64.2	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°	961.9	25.5
0°-40°	1597.4	42.4
0°-60°	2936.3	77.9
0°-90°	3767.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1240	1240	1234	1240	1241	118
15°	1184	1184	1183	1190	1192	334
25°	1078	1082	1096	1127	1140	496
35°	927	948	1011	1083	1109	581
45°	757	798	905	997	1028	584
55°	572	628	739	825	851	509
65°	376	425	514	574	590	369
75°	172	219	271	302	305	186
85°	31	53	56	56	53	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1246.1	1243.5	1239.7	1243.5	1244.8
5°	1239.7	1239.7	1234.5	1239.7	1241.0
7.5°	1231.9	1230.6	1225.4	1231.9	1233.2
10°	1218.9	1217.6	1213.7	1218.9	1221.5
12.5°	1203.3	1202.0	1199.5	1207.2	1207.2
15°	1183.9	1183.9	1182.6	1190.4	1191.7
17.5°	1161.9	1161.9	1163.1	1172.2	1174.8
20°	1137.2	1137.2	1142.4	1156.7	1161.9
22.5°	1107.4	1110.0	1120.4	1139.8	1148.9
25°	1077.6	1081.5	1095.7	1126.8	1139.8
27.5°	1043.9	1050.3	1073.7	1116.5	1134.6
30°	1007.5	1016.6	1051.6	1107.4	1128.1
32.5°	968.6	981.6	1030.9	1095.7	1119.1
35°	927.1	947.9	1011.4	1082.8	1108.7
37.5°	889.5	910.3	989.4	1067.2	1095.7
40°	845.5	871.4	963.5	1049.0	1077.6
42.5°	801.4	836.4	936.2	1025.7	1058.1
45°	757.3	797.5	905.1	997.2	1028.3
47.5°	710.6	756.0	870.1	963.5	994.6
50°	663.9	717.1	831.2	924.6	953.1
52.5°	618.5	674.3	787.1	877.9	903.8
55°	571.8	627.6	739.1	824.7	850.6
57.5°	518.7	584.8	688.6	766.4	787.1
60°	473.3	530.4	631.5	704.1	728.8
62.5°	421.4	481.1	571.8	643.2	661.3
65°	376.0	425.3	513.5	574.4	590.0
67.5°	322.9	373.5	455.1	505.7	517.4
70°	269.7	320.3	391.6	439.6	447.4
72.5°	221.7	269.7	332.0	370.9	377.3
75°	172.5	219.1	271.0	302.1	304.7
77.5°	131.0	172.5	214.0	236.0	237.3
80°	89.5	125.8	162.1	164.7	156.9
82.5°	57.1	86.9	105.0	101.1	101.1
85°	31.1	53.2	55.8	55.8	53.2
87.5°	13.0	20.7	20.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)