

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: P220192

Luminaire Tested: **Z3-WN-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-6L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4522.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

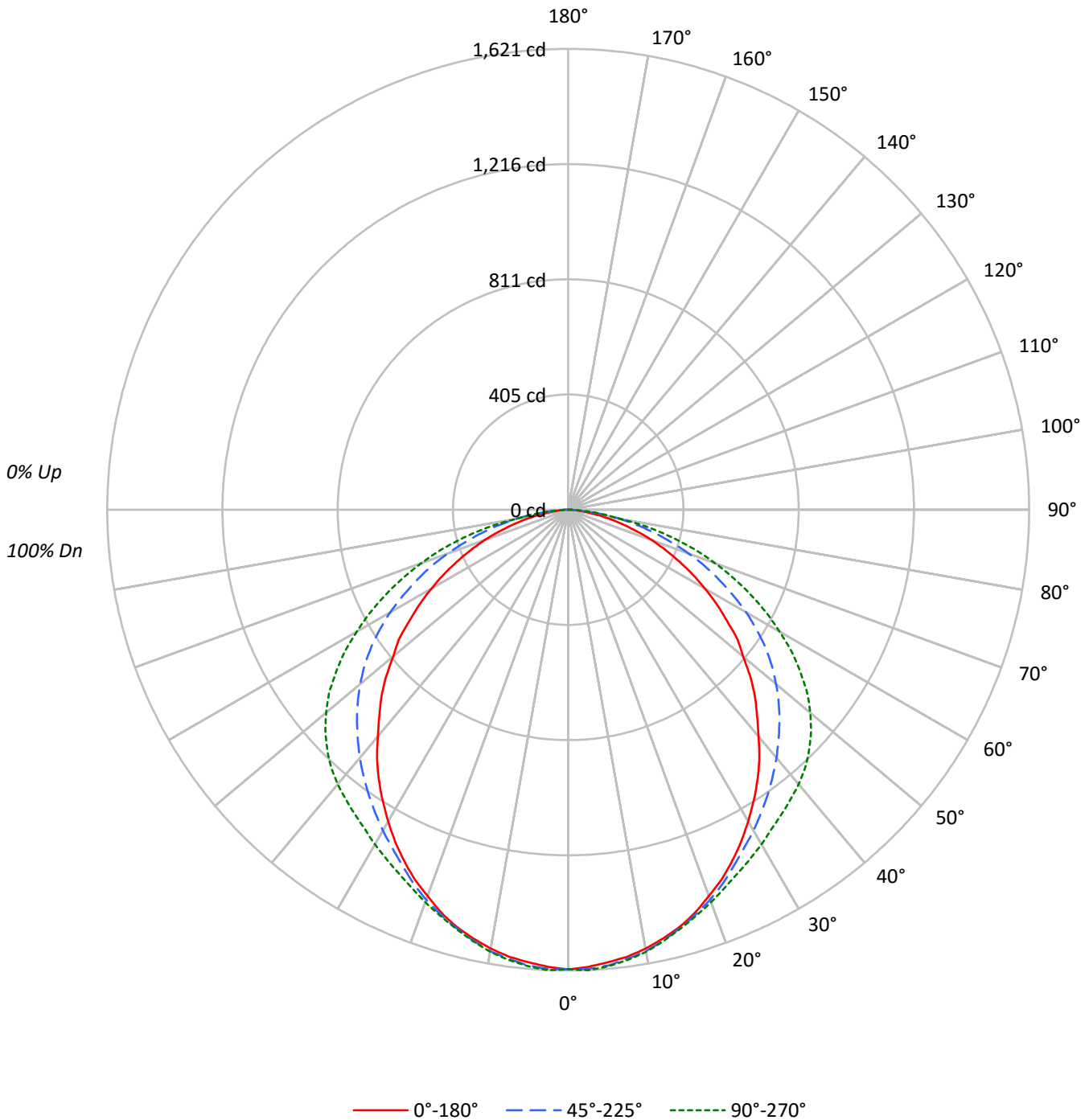
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4350	4350	4350
5°	4316	4348	4354
10°	4283	4309	4315
15°	4230	4243	4250
20°	4141	4181	4208
25°	4050	4098	4189
30°	3933	4049	4224
35°	3812	4020	4296
40°	3657	4003	4430
45°	3535	3998	4559
50°	3360	3996	4652
55°	3194	3973	4676
60°	2984	3891	4621
65°	2741	3739	4514
70°	2467	3552	4326
75°	2068	3260	3965
80°	1595	2864	2901
85°	1155	1951	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.4
10°-20°	429.3	9.5
20°-30°	638.7	14.1
30°-40°	769.1	17.0
40°-50°	814.6	18.0
50°-60°	753.2	16.7
60°-70°	573.6	12.7
70°-80°	319.3	7.1
80°-90°	72.7	1.6
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°	1220.4	27.0
0°-40°	1989.5	44.0
0°-60°	3557.2	78.7
0°-90°	4522.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1598	1603	1610	1612	1612	152
15°	1518	1521	1523	1525	1525	427
25°	1364	1366	1380	1399	1411	628
35°	1160	1172	1224	1284	1308	725
45°	929	957	1050	1156	1198	714
55°	681	737	847	957	997	610
65°	430	487	587	676	709	427
75°	199	243	314	365	381	213
85°	37	52	63	68	68	46
90°	0	0	0	0	0	



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CATALOG NUMBER: Z3-WN-6L40-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.6	1616.6	1616.6	1616.6	1616.6
2.5°	1609.6	1612.0	1616.6	1621.3	1621.3
5°	1597.9	1602.6	1609.6	1612.0	1612.0
7.5°	1586.2	1588.6	1593.3	1597.9	1597.9
10°	1567.5	1569.9	1576.9	1579.2	1579.2
12.5°	1544.1	1546.5	1551.1	1553.5	1553.5
15°	1518.4	1520.7	1523.1	1525.4	1525.4
17.5°	1485.6	1488.0	1492.6	1497.3	1497.3
20°	1445.9	1452.9	1459.9	1464.6	1469.3
22.5°	1408.4	1410.8	1422.5	1434.2	1438.8
25°	1364.0	1366.3	1380.3	1399.1	1410.8
27.5°	1317.2	1324.2	1340.6	1373.3	1385.0
30°	1265.7	1275.1	1303.1	1342.9	1359.3
32.5°	1214.2	1223.6	1263.4	1312.5	1331.2
35°	1160.4	1172.1	1223.6	1284.4	1307.8
37.5°	1104.3	1118.3	1181.5	1254.0	1284.4
40°	1041.1	1064.5	1139.4	1223.6	1261.0
42.5°	982.6	1010.7	1094.9	1190.8	1233.0
45°	928.8	956.9	1050.5	1155.7	1197.9
47.5°	868.0	903.1	1003.7	1116.0	1158.1
50°	802.5	846.9	954.5	1069.2	1111.3
52.5°	751.0	790.8	903.1	1017.7	1059.8
55°	680.8	737.0	846.9	956.9	996.7
57.5°	620.0	671.5	786.1	893.7	933.5
60°	554.5	608.3	722.9	823.5	858.6
62.5°	493.7	545.1	655.1	753.3	786.1
65°	430.5	486.6	587.2	676.1	708.9
67.5°	369.7	423.5	521.7	603.6	629.3
70°	313.5	360.3	451.5	519.4	549.8
72.5°	252.7	299.5	379.0	442.2	467.9
75°	198.9	243.3	313.5	365.0	381.4
77.5°	147.4	189.5	245.7	285.4	292.4
80°	102.9	138.0	184.8	191.8	187.2
82.5°	65.5	91.2	117.0	119.3	119.3
85°	37.4	51.5	63.2	67.8	67.8
87.5°	14.0	18.7	23.4	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)