

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: P220141

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-6L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4561.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

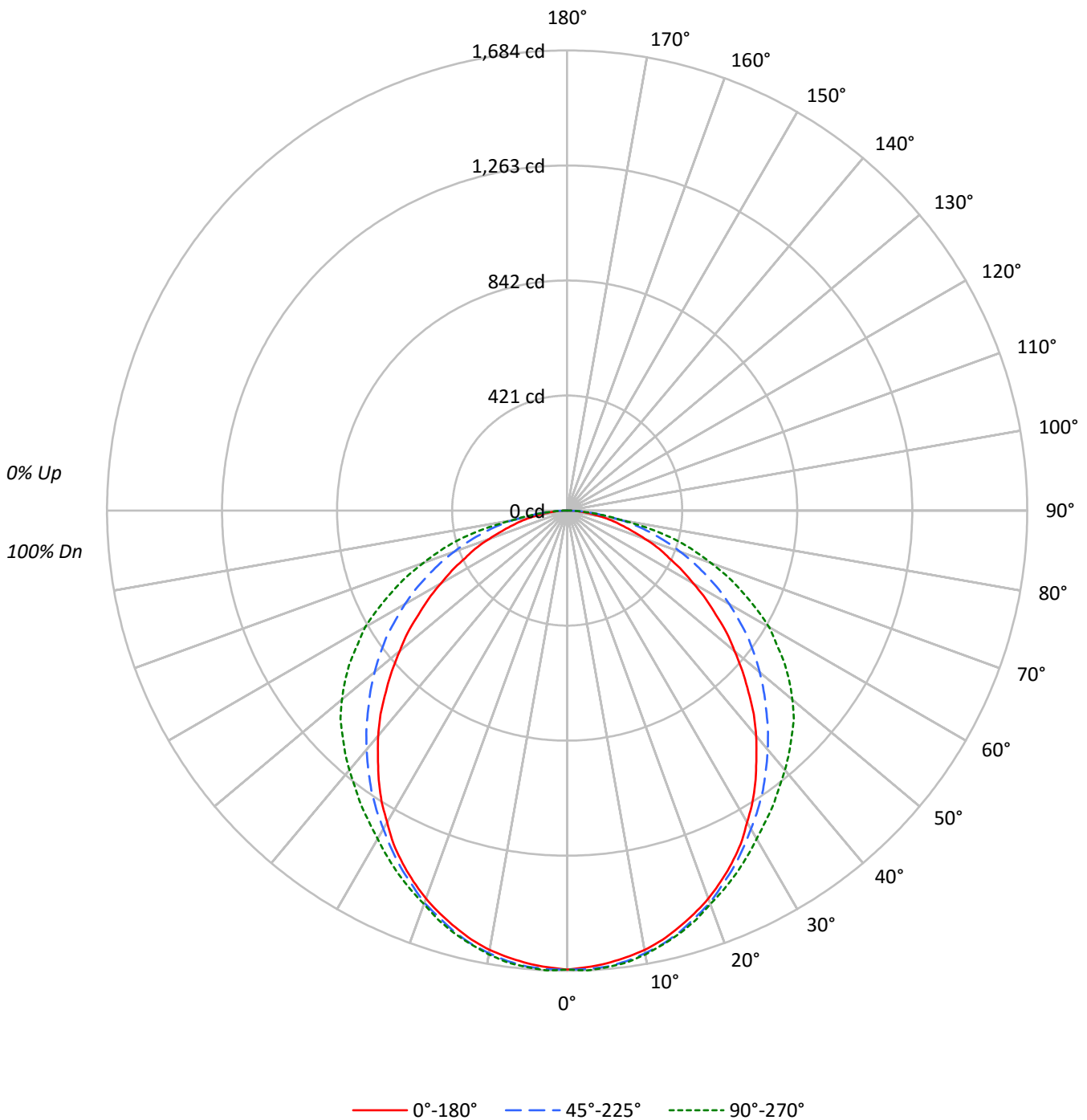
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4520	4520	4520
5°	4493	4525	4531
10°	4462	4494	4507
15°	4400	4445	4458
20°	4328	4375	4388
25°	4230	4279	4349
30°	4093	4180	4311
35°	3950	4104	4319
40°	3781	4011	4356
45°	3570	3918	4425
50°	3350	3849	4505
55°	3117	3787	4555
60°	2871	3689	4596
65°	2622	3575	4514
70°	2393	3460	4400
75°	2141	3332	4257
80°	1886	3118	3191
85°	1661	2455	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.5
10°-20°	448.7	9.8
20°-30°	664.7	14.6
30°-40°	783.5	17.2
40°-50°	803.5	17.6
50°-60°	726.4	15.9
60°-70°	558.5	12.2
70°-80°	331.0	7.3
80°-90°	86.1	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°	1272.1	27.9
0°-40°	2055.6	45.1
0°-60°	3585.5	78.6
0°-90°	4561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4561.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1663	1668	1675	1678	1678	158
15°	1579	1584	1596	1600	1600	445
25°	1425	1430	1441	1458	1465	655
35°	1202	1210	1249	1294	1315	751
45°	938	957	1029	1123	1163	725
55°	664	711	807	920	971	596
65°	412	463	562	669	709	413
75°	206	246	320	388	409	220
85°	54	66	80	84	77	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.8	1679.8	1679.8	1679.8	1679.8
2.5°	1672.8	1675.1	1679.8	1684.5	1684.5
5°	1663.4	1668.1	1675.1	1677.5	1677.5
7.5°	1649.4	1654.1	1663.4	1665.8	1668.1
10°	1633.0	1635.4	1644.7	1649.4	1649.4
12.5°	1609.6	1614.3	1623.7	1628.3	1626.0
15°	1579.2	1583.9	1595.6	1600.3	1600.3
17.5°	1546.5	1551.1	1560.5	1567.5	1569.9
20°	1511.4	1513.7	1527.7	1532.4	1532.4
22.5°	1469.3	1476.3	1483.3	1497.3	1499.7
25°	1424.8	1429.5	1441.2	1457.6	1464.6
27.5°	1375.7	1378.0	1394.4	1420.1	1427.1
30°	1317.2	1326.5	1345.3	1378.0	1387.4
32.5°	1263.4	1270.4	1298.5	1335.9	1349.9
35°	1202.5	1209.6	1249.3	1293.8	1314.8
37.5°	1137.0	1146.4	1195.5	1249.3	1275.1
40°	1076.2	1087.9	1141.7	1209.6	1240.0
42.5°	1010.7	1022.4	1087.9	1165.1	1202.5
45°	938.2	956.9	1029.4	1123.0	1162.8
47.5°	870.3	893.7	975.6	1078.5	1125.3
50°	800.1	832.9	919.5	1031.8	1076.2
52.5°	737.0	767.4	863.3	977.9	1024.7
55°	664.4	711.2	807.2	919.5	970.9
57.5°	601.3	643.4	744.0	863.3	907.8
60°	533.4	580.2	685.5	800.1	853.9
62.5°	474.9	519.4	627.0	737.0	781.4
65°	411.8	463.2	561.5	669.1	708.9
67.5°	365.0	400.1	503.0	603.6	638.7
70°	304.1	346.3	439.8	531.1	559.2
72.5°	250.3	294.8	381.3	460.9	486.6
75°	205.9	245.7	320.5	388.4	409.4
77.5°	166.1	198.9	264.4	311.2	315.8
80°	121.7	149.7	201.2	212.9	205.9
82.5°	86.6	105.3	133.4	140.4	133.4
85°	53.8	65.5	79.5	84.2	77.2
87.5°	25.7	25.7	32.8	32.8	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)