

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: P220140

Luminaire Tested: **Z3-WL-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220140
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-5L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4027.6 lumens
Efficiency: N/A
Efficacy: 113.1 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

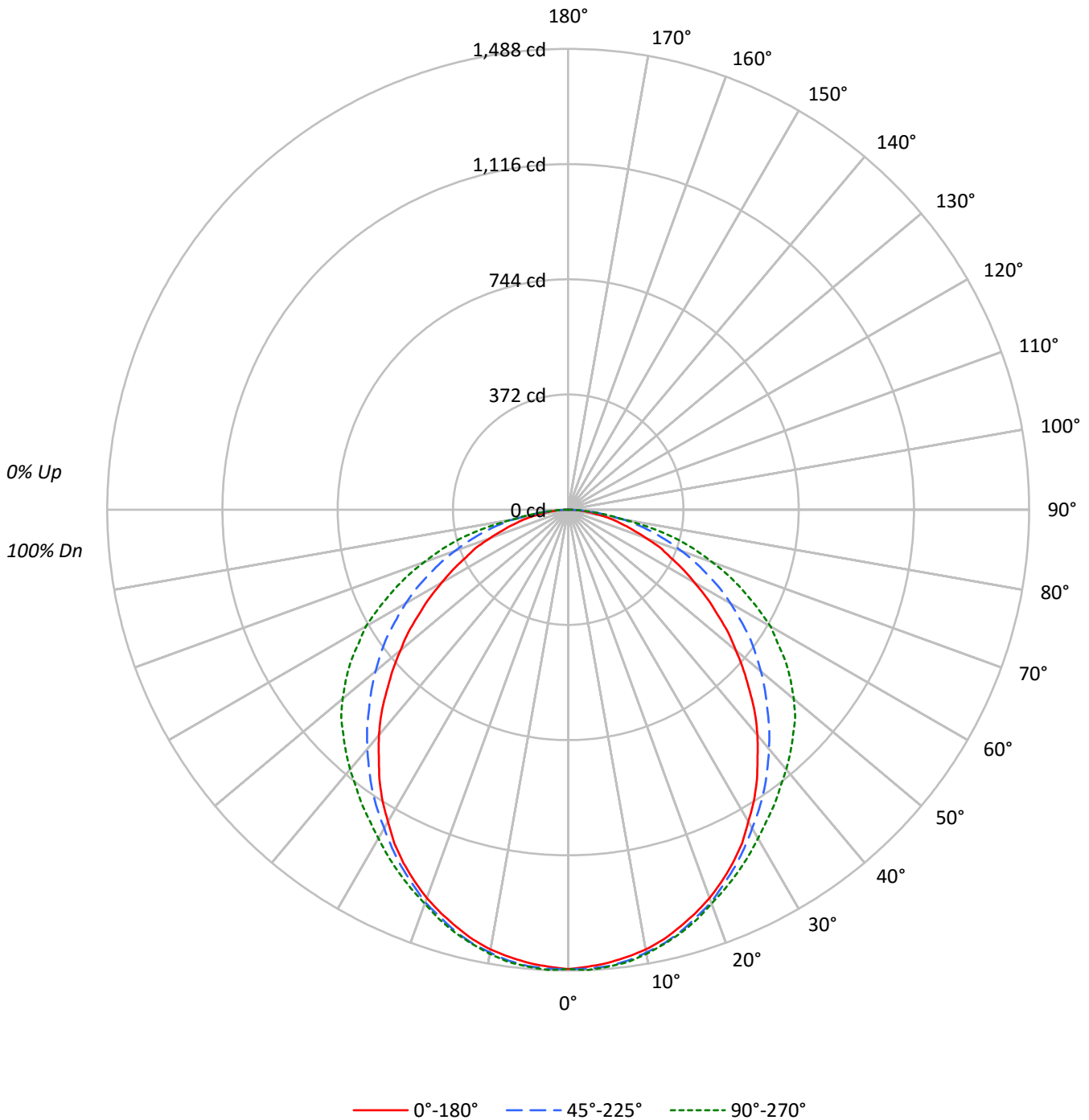
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220140

CATALOG NUMBER: Z3-WL-5L40-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220140

CATALOG NUMBER: Z3-WL-5L40-LD5-UNV-22

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	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°	3992	3992	3992
5°	3968	3996	4001
10°	3940	3968	3980
15°	3885	3925	3937
20°	3822	3863	3875
25°	3736	3779	3840
30°	3614	3691	3807
35°	3488	3624	3814
40°	3338	3542	3846
45°	3153	3459	3908
50°	2958	3399	3978
55°	2753	3344	4023
60°	2535	3258	4059
65°	2315	3157	3986
70°	2113	3056	3885
75°	1890	2942	3759
80°	1664	2754	2817
85°	1467	2167	2106



TEST NUMBER: P220140

CATALOG NUMBER: Z3-WL-5L40-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.5
10°-20°	396.2	9.8
20°-30°	586.9	14.6
30°-40°	691.9	17.2
40°-50°	709.5	17.6
50°-60°	641.4	15.9
60°-70°	493.2	12.2
70°-80°	292.3	7.3
80°-90°	76.0	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°	1123.3	27.9
0°-40°	1815.2	45.1
0°-60°	3166.1	78.6
0°-90°	4027.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1469	1473	1479	1481	1481	139
15°	1394	1399	1409	1413	1413	393
25°	1258	1262	1273	1287	1293	579
35°	1062	1068	1103	1142	1161	663
45°	828	845	909	992	1027	640
55°	587	628	713	812	857	527
65°	364	409	496	591	626	365
75°	182	217	283	343	362	194
85°	48	58	70	74	68	54
90°	0	0	0	0	0	



TEST NUMBER: P220140

CATALOG NUMBER: Z3-WL-5L40-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.3	1483.3	1483.3	1483.3	1483.3
2.5°	1477.1	1479.2	1483.3	1487.5	1487.5
5°	1468.9	1473.0	1479.2	1481.3	1481.3
7.5°	1456.5	1460.6	1468.9	1470.9	1473.0
10°	1442.0	1444.1	1452.3	1456.5	1456.5
12.5°	1421.4	1425.5	1433.8	1437.9	1435.8
15°	1394.5	1398.6	1409.0	1413.1	1413.1
17.5°	1365.6	1369.7	1378.0	1384.2	1386.2
20°	1334.6	1336.7	1349.1	1353.2	1353.2
22.5°	1297.4	1303.6	1309.8	1322.2	1324.3
25°	1258.2	1262.3	1272.6	1287.1	1293.3
27.5°	1214.8	1216.8	1231.3	1254.0	1260.2
30°	1163.1	1171.4	1187.9	1216.8	1225.1
32.5°	1115.6	1121.8	1146.6	1179.6	1192.0
35°	1061.9	1068.1	1103.2	1142.5	1161.1
37.5°	1004.0	1012.3	1055.7	1103.2	1125.9
40°	950.3	960.7	1008.2	1068.1	1094.9
42.5°	892.5	902.8	960.7	1028.8	1061.9
45°	828.4	845.0	909.0	991.6	1026.8
47.5°	768.5	789.2	861.5	952.4	993.7
50°	706.5	735.5	811.9	911.1	950.3
52.5°	650.8	677.6	762.3	863.6	904.9
55°	586.7	628.0	712.7	811.9	857.4
57.5°	530.9	568.1	657.0	762.3	801.6
60°	471.0	512.4	605.3	706.5	754.1
62.5°	419.4	458.6	553.7	650.8	690.0
65°	363.6	409.1	495.8	590.9	626.0
67.5°	322.3	353.3	444.2	533.0	564.0
70°	268.6	305.8	388.4	469.0	493.8
72.5°	221.1	260.3	336.7	407.0	429.7
75°	181.8	216.9	283.0	342.9	361.5
77.5°	146.7	175.6	233.4	274.8	278.9
80°	107.4	132.2	177.7	188.0	181.8
82.5°	76.4	93.0	117.8	124.0	117.8
85°	47.5	57.8	70.2	74.4	68.2
87.5°	22.7	22.7	28.9	28.9	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)