

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: P220012

Luminaire Tested: **Z3-WL-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-3L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4286.7 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

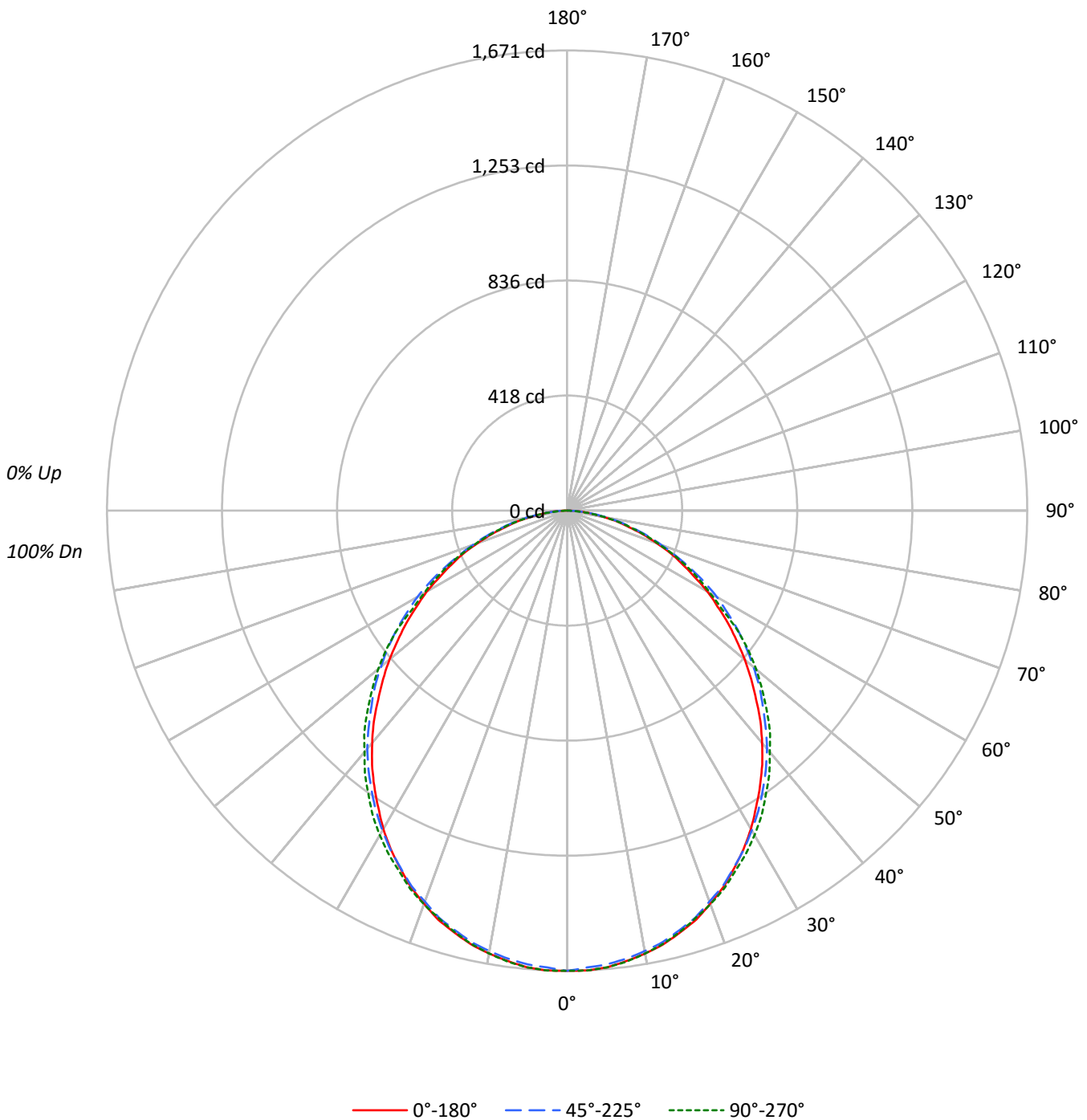
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4498	4498	4498
5°	4498	4469	4498
10°	4462	4438	4462
15°	4418	4394	4412
20°	4351	4326	4357
25°	4257	4250	4288
30°	4148	4168	4228
35°	4012	4069	4132
40°	3869	3967	4020
45°	3694	3825	3898
50°	3525	3696	3750
55°	3348	3549	3529
60°	3172	3379	3229
65°	2947	3124	3043
70°	2714	2866	2782
75°	2429	2585	2517
80°	2125	2292	2159
85°	1788	1720	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.7
10°-20°	446.3	10.4
20°-30°	662.2	15.4
30°-40°	775.6	18.1
40°-50°	773.9	18.1
50°-60°	665.2	15.5
60°-70°	477.4	11.1
70°-80°	262.4	6.1
80°-90°	66.0	1.5
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°	1266.1	29.5
0°-40°	2041.7	47.6
0°-60°	3480.8	81.2
0°-90°	4286.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1665	1663	1654	1665	1665	158
15°	1586	1584	1577	1586	1584	447
25°	1434	1434	1431	1444	1444	660
35°	1221	1226	1239	1256	1258	764
45°	971	981	1005	1024	1024	750
55°	714	733	756	761	752	638
65°	463	484	491	482	478	460
75°	234	251	249	249	242	251
85°	58	60	56	49	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.4	1671.4	1671.4	1671.4	1671.4
2.5°	1671.4	1669.3	1660.7	1671.4	1671.4
5°	1665.0	1662.9	1654.3	1665.0	1665.0
7.5°	1650.0	1650.0	1641.4	1650.0	1652.1
10°	1632.9	1632.9	1624.3	1635.0	1632.9
12.5°	1613.6	1609.3	1605.0	1613.6	1611.4
15°	1585.7	1583.6	1577.1	1585.7	1583.6
17.5°	1557.9	1553.6	1549.3	1555.7	1551.4
20°	1519.3	1517.1	1510.7	1521.4	1521.4
22.5°	1480.7	1478.6	1476.4	1485.0	1487.1
25°	1433.6	1433.6	1431.4	1444.3	1444.3
27.5°	1386.4	1386.4	1388.6	1403.6	1405.7
30°	1335.0	1335.0	1341.4	1358.6	1360.7
32.5°	1277.1	1281.4	1292.1	1311.4	1313.6
35°	1221.4	1225.7	1238.6	1255.7	1257.9
37.5°	1163.6	1167.9	1185.0	1202.1	1206.4
40°	1101.4	1105.7	1129.3	1144.3	1144.3
42.5°	1039.3	1045.7	1067.1	1086.4	1090.7
45°	970.7	981.4	1005.0	1024.3	1024.3
47.5°	906.4	921.4	947.1	964.3	960.0
50°	842.1	857.1	882.9	897.9	895.7
52.5°	775.7	792.9	820.7	831.4	827.1
55°	713.6	732.9	756.4	760.7	752.1
57.5°	647.1	668.6	690.0	690.0	666.4
60°	589.3	606.4	627.9	604.3	600.0
62.5°	520.7	546.4	561.4	540.0	540.0
65°	462.9	484.3	490.7	482.1	477.9
67.5°	407.1	424.3	424.3	420.0	417.9
70°	345.0	364.3	364.3	357.9	353.6
72.5°	289.3	308.6	306.4	306.4	297.9
75°	233.6	250.7	248.6	248.6	242.1
77.5°	186.4	195.0	199.3	192.9	190.7
80°	137.1	145.7	147.9	141.4	139.3
82.5°	92.1	100.7	100.7	96.4	92.1
85°	57.9	60.0	55.7	49.3	51.4
87.5°	25.7	23.6	19.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)