

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: P220022

Luminaire Tested: **Z3-WG-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-4L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4514.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

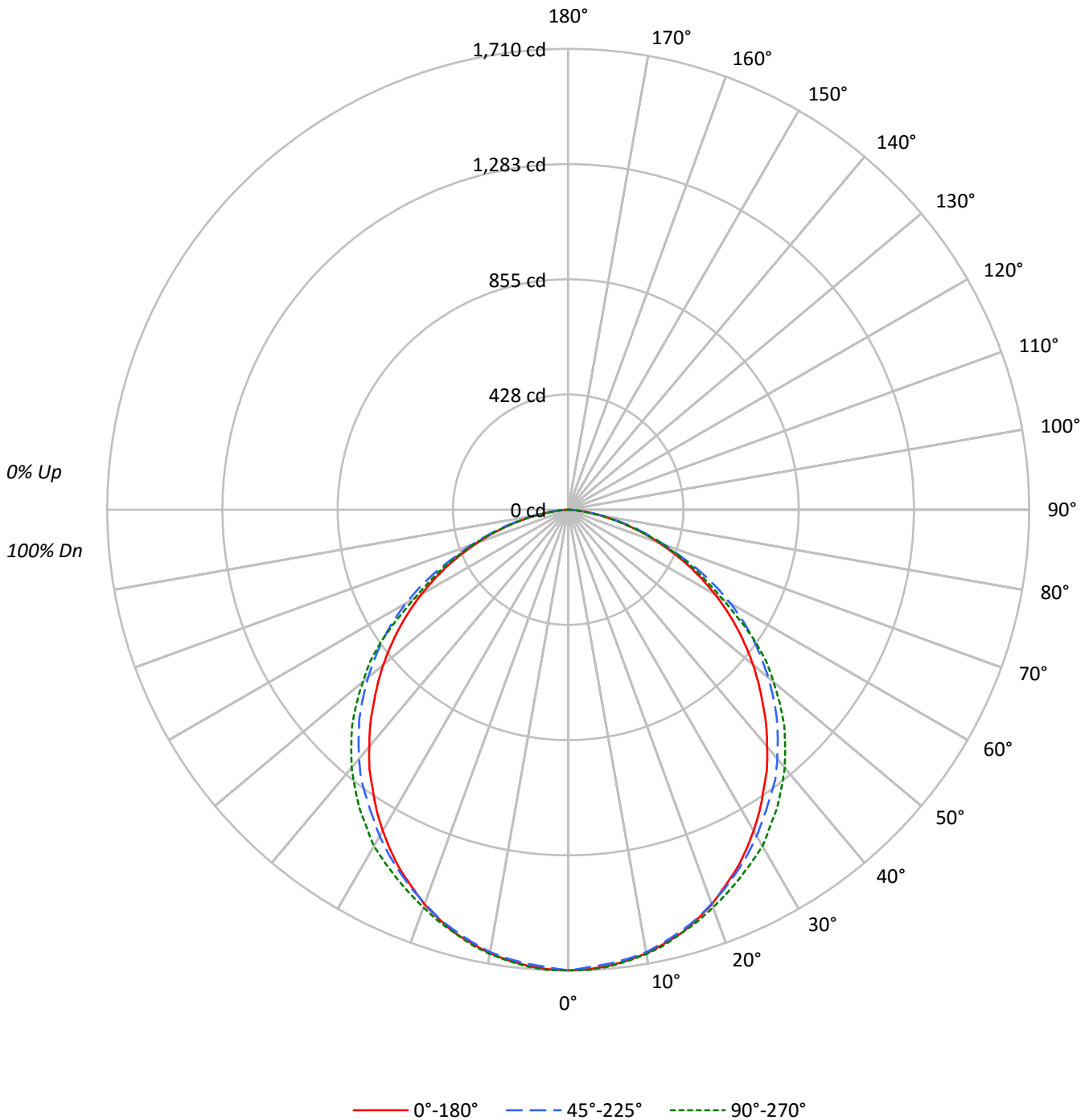
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4600	4600	4600
5°	4591	4570	4597
10°	4568	4554	4574
15°	4530	4509	4530
20°	4461	4454	4497
25°	4377	4400	4475
30°	4275	4346	4479
35°	4154	4287	4436
40°	4033	4238	4389
45°	3888	4167	4311
50°	3748	4055	4161
55°	3583	3927	3951
60°	3389	3743	3539
65°	3140	3414	3269
70°	2825	2984	2905
75°	2392	2550	2419
80°	1881	1959	1802
85°	1250	1170	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	3.6
10°-20°	458.0	10.1
20°-30°	685.6	15.2
30°-40°	818.2	18.1
40°-50°	835.7	18.5
50°-60°	732.0	16.2
60°-70°	514.5	11.4
70°-80°	258.4	5.7
80°-90°	50.7	1.1
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°	1304.8	28.9
0°-40°	2123.0	47.0
0°-60°	3690.7	81.8
0°-90°	4514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1699	1699	1692	1702	1702	161
15°	1626	1624	1618	1629	1626	458
25°	1474	1477	1482	1502	1507	678
35°	1264	1275	1305	1340	1350	792
45°	1022	1042	1095	1125	1133	789
55°	764	802	837	850	842	683
65°	493	524	536	516	513	488
75°	230	253	245	238	233	247
85°	40	43	38	33	30	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.5	1709.5	1709.5	1709.5	1709.5
2.5°	1707.0	1707.0	1699.4	1709.5	1709.5
5°	1699.4	1699.4	1691.8	1701.9	1701.9
7.5°	1686.8	1686.8	1681.7	1689.3	1689.3
10°	1671.6	1671.6	1666.5	1674.1	1674.1
12.5°	1648.8	1648.8	1643.8	1651.4	1653.9
15°	1626.1	1623.5	1618.5	1628.6	1626.1
17.5°	1593.2	1593.2	1590.7	1600.8	1600.8
20°	1557.8	1560.3	1555.3	1567.9	1570.4
22.5°	1514.8	1517.3	1519.9	1535.0	1540.1
25°	1474.3	1476.9	1481.9	1502.2	1507.2
27.5°	1426.3	1431.3	1441.5	1464.2	1474.3
30°	1375.7	1383.3	1398.5	1428.8	1441.5
32.5°	1322.6	1332.7	1350.4	1388.4	1393.4
35°	1264.4	1274.6	1304.9	1340.3	1350.4
37.5°	1211.3	1221.4	1261.9	1292.3	1299.8
40°	1148.1	1163.3	1206.3	1239.2	1249.3
42.5°	1087.4	1102.6	1150.6	1183.5	1191.1
45°	1021.7	1041.9	1095.0	1125.4	1132.9
47.5°	958.4	981.2	1031.8	1059.6	1064.7
50°	895.2	920.5	968.6	996.4	993.9
52.5°	829.5	857.3	902.8	925.6	925.6
55°	763.7	801.7	837.1	849.7	842.1
57.5°	698.0	730.8	768.8	768.8	746.0
60°	629.7	662.6	695.4	675.2	657.5
62.5°	561.4	594.3	617.0	586.7	581.6
65°	493.1	523.5	536.1	515.9	513.4
67.5°	424.9	455.2	450.1	447.6	437.5
70°	359.1	386.9	379.3	374.3	369.2
72.5°	295.9	321.2	311.1	303.5	300.9
75°	230.1	252.9	245.3	237.7	232.7
77.5°	172.0	187.1	184.6	177.0	172.0
80°	121.4	131.5	126.4	121.4	116.3
82.5°	73.3	83.5	78.4	70.8	68.3
85°	40.5	43.0	37.9	32.9	30.3
87.5°	15.2	12.6	10.1	10.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)