

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: P220035

Luminaire Tested: **Z3-WD-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3595.4 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

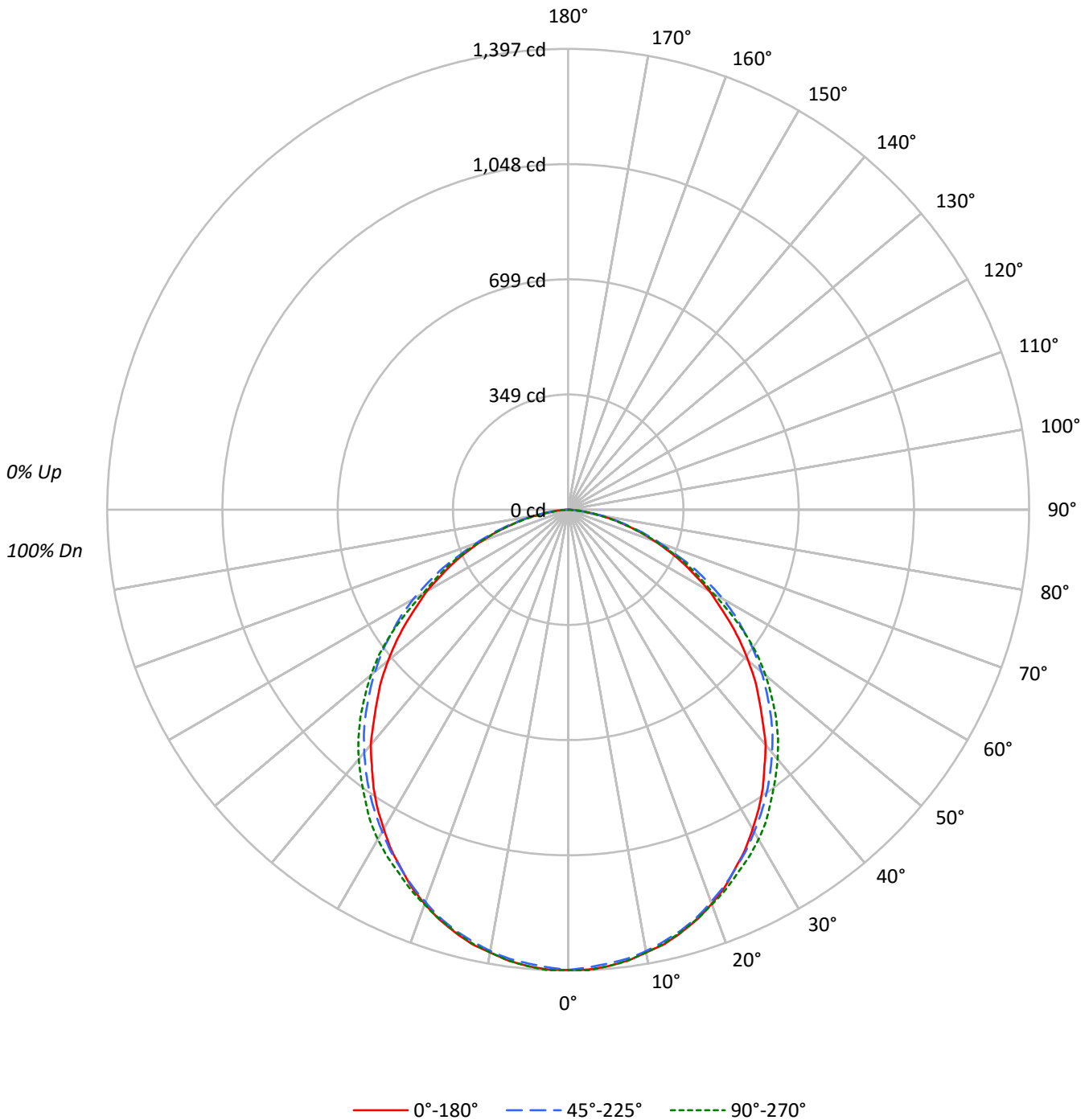
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3754	3754	3754
5°	3752	3730	3752
10°	3724	3713	3724
15°	3695	3678	3689
20°	3641	3624	3647
25°	3559	3564	3607
30°	3472	3503	3585
35°	3378	3444	3524
40°	3270	3377	3469
45°	3118	3295	3388
50°	2980	3201	3268
55°	2816	3073	3073
60°	2663	2914	2729
65°	2453	2673	2544
70°	2202	2330	2234
75°	1877	1982	1877
80°	1477	1540	1446
85°	939	939	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.7
10°-20°	373.1	10.4
20°-30°	555.4	15.4
30°-40°	656.6	18.3
40°-50°	663.1	18.4
50°-60°	573.3	15.9
60°-70°	400.1	11.1
70°-80°	201.9	5.6
80°-90°	40.2	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°	1060.2	29.5
0°-40°	1716.8	47.8
0°-60°	2953.1	82.1
0°-90°	3595.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1389	1387	1381	1389	1389	132
15°	1326	1324	1320	1324	1324	374
25°	1198	1200	1200	1213	1215	553
35°	1028	1032	1048	1069	1073	642
45°	819	831	866	888	890	633
55°	600	627	655	663	655	537
65°	385	410	420	398	400	381
75°	180	199	191	184	180	194
85°	30	34	30	26	24	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1395.2	1395.2	1389.1	1397.2	1397.2
5°	1389.1	1387.1	1381.0	1389.1	1389.1
7.5°	1379.0	1377.0	1372.9	1379.0	1379.0
10°	1362.8	1362.8	1358.7	1364.8	1362.8
12.5°	1348.6	1346.5	1340.5	1346.5	1346.5
15°	1326.3	1324.2	1320.2	1324.2	1324.2
17.5°	1301.9	1297.9	1295.8	1299.9	1299.9
20°	1271.5	1269.5	1265.4	1273.5	1273.5
22.5°	1239.1	1235.0	1235.0	1243.1	1247.2
25°	1198.5	1200.5	1200.5	1212.7	1214.7
27.5°	1162.0	1162.0	1166.1	1180.2	1186.3
30°	1117.4	1121.4	1127.5	1145.8	1153.9
32.5°	1074.8	1080.9	1089.0	1111.3	1117.4
35°	1028.2	1032.2	1048.4	1068.7	1072.8
37.5°	977.5	981.5	1005.8	1028.2	1030.2
40°	930.8	932.8	961.2	981.5	987.6
42.5°	872.0	886.2	916.6	936.9	941.0
45°	819.3	831.4	865.9	888.2	890.3
47.5°	768.6	780.7	815.2	833.5	835.5
50°	711.8	728.0	764.5	778.7	780.7
52.5°	657.0	677.3	711.8	724.0	721.9
55°	600.3	626.6	655.0	663.1	655.0
57.5°	543.5	573.9	600.3	598.2	580.0
60°	494.8	517.1	541.5	523.2	507.0
62.5°	436.0	464.4	478.6	454.3	452.2
65°	385.3	409.6	419.8	397.5	399.5
67.5°	330.6	354.9	350.8	344.7	340.7
70°	279.9	304.2	296.1	288.0	283.9
72.5°	231.2	251.5	243.4	237.3	231.2
75°	180.5	198.7	190.6	184.5	180.5
77.5°	137.9	148.0	144.0	137.9	133.8
80°	95.3	105.5	99.4	93.3	93.3
82.5°	58.8	66.9	60.8	56.8	54.8
85°	30.4	34.5	30.4	26.4	24.3
87.5°	12.2	12.2	8.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)